

Release notes for ENDF/B Development n-013_A1_027
evaluation



April 26, 2017

- psyche Warnings:

1. Gamma width not in agreement with PSYCHE's expectations

FILE 2 / SECTION 151 / ISOTOPE MASS = 27. L = 0 / AT RESONANCE ENERGY 4.29510E+05 EV. THE GAMMA WIDTH 5.07030E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.79127E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 27. L = 0

AT RESONANCE ENERGY 4.29510E+05 EV. THE GAMMA WIDTH 5.07030E-01 DEVIATES TOO MUCH FROM THE AVE

2. Gamma width not in agreement with PSYCHE's expectations

FILE 2 / SECTION 151 / ISOTOPE MASS = 27. L = 0 / AT RESONANCE ENERGY 4.90416E+05 EV. THE GAMMA WIDTH 4.90900E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.79127E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 27. L = 0

AT RESONANCE ENERGY 4.90416E+05 EV. THE GAMMA WIDTH 4.90900E-01 DEVIATES TOO MUCH FROM THE AVE

3. Strength function in URR not in agreement with PSYCHE's expectations

FILE 2 / SECTION 151 / ISOTOPE MASS = 27. L = 0 / STRENGTH FUNCTION IS 7.87356E-05 / STRENGTH FUNCTION 7.87356E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 9.00000E-04 (0): URR str. ftn.

FILE 2

SECTION 151

ISOTOPE MASS = 27. L = 0

STRENGTH FUNCTION IS 7.87356E-05

STRENGTH FUNCTION 7.87356E-05

... [1 more lines]

4. Gamma width not in agreement with PSYCHE's expectations

FILE 2 / SECTION 151 / ISOTOPE MASS = 27. L = 1 / AT RESONANCE ENERGY 2.43061E+04 EV. THE GAMMA WIDTH 1.16000E-02 DEVIATES TOO MUCH FROM THE AVERAGE 1.12156E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 27. L = 1

AT RESONANCE ENERGY 2.43061E+04 EV. THE GAMMA WIDTH 1.16000E-02 DEVIATES TOO MUCH FROM THE AVE

5. Gamma width not in agreement with PSYCHE's expectations

FILE 2 / SECTION 151 / ISOTOPE MASS = 27. L = 1 / AT RESONANCE ENERGY 9.12485E+04 EV. THE GAMMA WIDTH 3.67000E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.12156E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 27. L = 1

AT RESONANCE ENERGY 9.12485E+04 EV. THE GAMMA WIDTH 3.67000E-01 DEVIATES TOO MUCH FROM THE AVE

6. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 27. L = 1 / AT RESONANCE ENERGY 1.46205E+05 EV. THE GAMMA WIDTH 1.98600E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.12156E+00 (0): Gamma width

```
FILE 2
SECTION 151
ISOTOPE MASS = 27. L = 1
AT RESONANCE ENERGY 1.46205E+05 EV. THE GAMMA WIDTH 1.98600E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.12156E+00 (0): Gamma width
```

7. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 27. L = 1 / AT RESONANCE ENERGY 4.15748E+05 EV. THE GAMMA WIDTH 5.05510E+00 DEVIATES TOO MUCH FROM THE AVERAGE 1.12156E+00 (0): Gamma width

```
FILE 2
SECTION 151
ISOTOPE MASS = 27. L = 1
AT RESONANCE ENERGY 4.15748E+05 EV. THE GAMMA WIDTH 5.05510E+00 DEVIATES TOO MUCH FROM THE AVERAGE 1.12156E+00 (0): Gamma width
```

8. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 27. L = 1 / AT RESONANCE ENERGY 5.98239E+05 EV. THE GAMMA WIDTH 2.90000E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.12156E+00 (0): Gamma width

```
FILE 2
SECTION 151
ISOTOPE MASS = 27. L = 1
AT RESONANCE ENERGY 5.98239E+05 EV. THE GAMMA WIDTH 2.90000E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.12156E+00 (0): Gamma width
```

9. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 27. L = 1 / STRENGTH FUNCTION IS -4.31339E-05 / STRENGTH FUNCTION-4.31339E-05 / LIES OUTSIDE LIMITS 1.00000E-05 TO 2.00000E-04 (0): URR str. ftn.

```
FILE 2
SECTION 151
ISOTOPE MASS = 27. L = 1
STRENGTH FUNCTION IS -4.31339E-05
STRENGTH FUNCTION-4.31339E-05
... [1 more lines]
```

10. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 27. L = 2 / AT RESONANCE ENERGY 3.60344E+05 EV. THE GAMMA WIDTH 8.37100E+00 DEVIATES TOO MUCH FROM THE AVERAGE 1.55747E+00 (0): Gamma width

```
FILE 2
SECTION 151
ISOTOPE MASS = 27. L = 2
AT RESONANCE ENERGY 3.60344E+05 EV. THE GAMMA WIDTH 8.37100E+00 DEVIATES TOO MUCH FROM THE AVERAGE 1.55747E+00 (0): Gamma width
```

11. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 27. L = 2 / AT RESONANCE ENERGY 5.86286E+05 EV. THE GAMMA WIDTH 3.59900E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.55747E+00 (0): Gamma width

FILE 2
SECTION 151
ISOTOPE MASS = 27. L = 2
AT RESONANCE ENERGY 5.86286E+05 EV. THE GAMMA WIDTH 3.59900E-01 DEVIATES TOO MUCH FROM THE AVERAGE

12. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 27. L = 2 / AT RESONANCE ENERGY 5.92722E+05 EV. THE GAMMA WIDTH 3.50000E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.55747E+00 (0): Gamma width

FILE 2
SECTION 151
ISOTOPE MASS = 27. L = 2
AT RESONANCE ENERGY 5.92722E+05 EV. THE GAMMA WIDTH 3.50000E-01 DEVIATES TOO MUCH FROM THE AVERAGE

13. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 27. L = 2 / AT RESONANCE ENERGY 6.02910E+05 EV. THE GAMMA WIDTH 2.11400E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.55747E+00 (0): Gamma width

FILE 2
SECTION 151
ISOTOPE MASS = 27. L = 2
AT RESONANCE ENERGY 6.02910E+05 EV. THE GAMMA WIDTH 2.11400E-01 DEVIATES TOO MUCH FROM THE AVERAGE

14. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 27. L = 2 / AT RESONANCE ENERGY 6.54609E+05 EV. THE GAMMA WIDTH 1.96400E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.55747E+00 (0): Gamma width

FILE 2
SECTION 151
ISOTOPE MASS = 27. L = 2
AT RESONANCE ENERGY 6.54609E+05 EV. THE GAMMA WIDTH 1.96400E-01 DEVIATES TOO MUCH FROM THE AVERAGE

15. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 27. L = 2 / AT RESONANCE ENERGY 6.55086E+05 EV. THE GAMMA WIDTH 1.73400E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.55747E+00 (0): Gamma width

FILE 2
SECTION 151
ISOTOPE MASS = 27. L = 2
AT RESONANCE ENERGY 6.55086E+05 EV. THE GAMMA WIDTH 1.73400E-01 DEVIATES TOO MUCH FROM THE AVERAGE

• recent Warnings:

1. Statistical weight of certain L values were incorrect
O: RRR goof (a)

```
Calculate Cross Sections from Resonance Parameters (RECENT 2015-1)
=====
Retrieval Criteria----- MAT
File 2 Minimum Cross Section- 1.0000E-10 (Standard Option)
Reactions with No Background- Output (Resonance Contribution)
... [259 more lines]
```

- fudge-4.0 Warnings:

1. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 1 ($n + Al27$): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

2. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 1 ($n + Al27$): / Form 'eval': / Component 2 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

3. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 2 ((z, n)): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

4. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 3 ($n[multiplicity:'2'] + Al26 + gamma$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

5. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 4 ($Al28 + gamma$): / Form 'eval': / Component 0 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (4.203578e-10) is too small

6. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 4 ($Al28 + gamma$): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

- fudge-4.0 Errors:

1. Calculated and tabulated Q values disagree.

reaction label 41: $n[multiplicity:'2'] + Al26 + gamma$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -13012980.29718018 eV vs -1.30582e7 eV!

2. Calculated and tabulated Q values disagree.

reaction label 42: $n + H1 + Mg26 + gamma$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -8732182.147518158 eV vs -8272130. eV!

3. Calculated and tabulated Q values disagree.

reaction label 43: $n + H2 + Mg25 + gamma$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -17601679.14104843 eV vs -1.71402e7 eV!

4. Calculated and tabulated Q values disagree.
reaction label 44: n + H3 + Mg24 + gamma (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -18184209.22918701 eV vs -1.82136e7 eV!
5. Calculated and tabulated Q values disagree.
reaction label 45: H1 + Mg27 (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -2296159.401260376 eV vs -1828549. eV!
6. Calculated and tabulated Q values disagree.
reaction label 46: H1 + (Mg27_e1 ->Mg27 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -3280819.401260376 eV vs -2813209. eV!
7. Calculated and tabulated Q values disagree.
reaction label 47: H1 + (Mg27_e2 ->Mg27 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -3994159.401260376 eV vs -3526549. eV!
8. Calculated and tabulated Q values disagree.
reaction label 48: H1 + (Mg27_e3 ->Mg27 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -4236159.401260376 eV vs -3768549. eV!
9. Calculated and tabulated Q values disagree.
reaction label 49: H1 + (Mg27_e4 ->Mg27 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -5405559.401260376 eV vs -4937949. eV!
10. Calculated and tabulated Q values disagree.
reaction label 50: H1 + (Mg27_e5 ->Mg27 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -5723059.401260376 eV vs -5255449. eV!
11. Calculated and tabulated Q values disagree.
reaction label 51: H1 + (Mg27_e6 ->Mg27 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -5771459.401260376 eV vs -5303849. eV!
12. Calculated and tabulated Q values disagree.
reaction label 52: H1 + (Mg27_e7 ->Mg27 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -5786859.401260376 eV vs -5319249. eV!
13. Calculated and tabulated Q values disagree.
reaction label 53: H1 + (Mg27_e8 ->Mg27 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -5855359.401260376 eV vs -5387749. eV!
14. Calculated and tabulated Q values disagree.
reaction label 54: H1 + (Mg27_e9 ->Mg27 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -6056559.401260376 eV vs -5588949. eV!

15. Calculated and tabulated Q values disagree.
reaction label 55: H1 + (Mg27_e10 -> Mg27 + gamma) (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -6082059.401260376 eV vs -5614449. eV!

16. Calculated and tabulated Q values disagree.
reaction label 56: H1 + (Mg27_e11 -> Mg27 + gamma) (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -6180159.401260376 eV vs -5712549. eV!

17. Calculated and tabulated Q values disagree.
reaction label 57: H1 + (Mg27_e12 -> Mg27 + gamma) (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -6445959.401260376 eV vs -5978349. eV!

18. Calculated and tabulated Q values disagree.
reaction label 58: H1 + (Mg27_e13 -> Mg27 + gamma) (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -6694359.401260376 eV vs -6226749. eV!

19. Calculated and tabulated Q values disagree.
reaction label 59: H1 + (Mg27_e14 -> Mg27 + gamma) (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -6848959.401260376 eV vs -6381349. eV!

20. Calculated and tabulated Q values disagree.
reaction label 60: H1 + (Mg27_e15 -> Mg27 + gamma) (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -7072259.401260376 eV vs -6604649. eV!

21. Calculated and tabulated Q values disagree.
reaction label 61: H1 + (Mg27_e16 -> Mg27 + gamma) (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -7123459.401260376 eV vs -6655849. eV!

22. Calculated and tabulated Q values disagree.
reaction label 62: H1 + (Mg27_e17 -> Mg27 + gamma) (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -7288459.401260376 eV vs -6820849. eV!

23. Calculated and tabulated Q values disagree.
reaction label 63: H1 + (Mg27_e18 -> Mg27 + gamma) (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -7324159.401260376 eV vs -6856549. eV!

24. Calculated and tabulated Q values disagree.
reaction label 64: H1 + (Mg27_e19 -> Mg27 + gamma) (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -7468160.401260376 eV vs -7000550. eV!

25. Energy range of data set does not match cross section range
reaction label 64: H1 + (Mg27_e19 -> Mg27 + gamma) / Product: H1 / Distribution: / angularTwoBody - XYs2d: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7262255.0 -> 150000000.0) vs (7262254.0 -> 150000000.0)

26. Energy range of data set does not match cross section range
reaction label 64: H1 + (Mg27_e19 ->Mg27 + gamma) / Product: Mg27_e19 / Decay product: gamma / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7262255.0 -> 150000000.0) vs (7262254.0 -> 150000000.0)
27. Energy range of data set does not match cross section range
reaction label 64: H1 + (Mg27_e19 ->Mg27 + gamma) / Product: Mg27_e19 / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7262255.0 -> 150000000.0) vs (7262254.0 -> 150000000.0)
 WARNING: Domain doesn't match the cross section domain: (7262255.0 -> 150000000.0) vs (7262254.0 -> 150000000.0)
 WARNING: Domain doesn't match the cross section domain: (7262255.0 -> 150000000.0) vs (7262254.0 -> 150000000.0)
 WARNING: Domain doesn't match the cross section domain: (7262255.0 -> 150000000.0) vs (7262254.0 -> 150000000.0)
 ... plus 14 more instances of this message
28. Energy range of data set does not match cross section range
reaction label 64: H1 + (Mg27_e19 ->Mg27 + gamma) / Product: Mg27_e19 / Decay product: gamma_a / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7262255.0 -> 150000000.0) vs (7262254.0 -> 150000000.0)
29. Energy range of data set does not match cross section range
reaction label 64: H1 + (Mg27_e19 ->Mg27 + gamma) / Product: Mg27_e19 / Decay product: gamma_b / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7262255.0 -> 150000000.0) vs (7262254.0 -> 150000000.0)
30. Energy range of data set does not match cross section range
reaction label 64: H1 + (Mg27_e19 ->Mg27 + gamma) / Product: Mg27_e19 / Decay product: gamma_c / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7262255.0 -> 150000000.0) vs (7262254.0 -> 150000000.0)
31. Energy range of data set does not match cross section range
reaction label 64: H1 + (Mg27_e19 ->Mg27 + gamma) / Product: Mg27_e19 / Decay product: gamma_d / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7262255.0 -> 150000000.0) vs (7262254.0 -> 150000000.0)
32. Energy range of data set does not match cross section range
reaction label 64: H1 + (Mg27_e19 ->Mg27 + gamma) / Product: Mg27_e19 / Decay product: gamma_e / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7262255.0 -> 150000000.0) vs (7262254.0 -> 150000000.0)
33. Energy range of data set does not match cross section range
reaction label 64: H1 + (Mg27_e19 ->Mg27 + gamma) / Product: Mg27_e19 / Decay product: gamma_f / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7262255.0 -> 150000000.0) vs (7262254.0 -> 150000000.0)
34. Energy range of data set does not match cross section range
reaction label 64: H1 + (Mg27_e19 ->Mg27 + gamma) / Product: Mg27_e19 / Decay product: gamma_g / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7262255.0 -> 150000000.0) vs (7262254.0 -> 150000000.0)

- WARNING: Domain doesn't match the cross section domain: (7262255.0 -> 150000000.0) vs (7262254.0 -> 150000000.0)
35. Energy range of data set does not match cross section range
reaction label 64: H1 + (Mg27_e19 ->Mg27 + gamma) / Product: Mg27_e19 / Decay product: gamma_h / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7262255.0 -> 150000000.0) vs (7262254.0 -> 150000000.0)
36. Energy range of data set does not match cross section range
reaction label 64: H1 + (Mg27_e19 ->Mg27 + gamma) / Product: Mg27_e19 / Decay product: gamma_i / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7262255.0 -> 150000000.0) vs (7262254.0 -> 150000000.0)
37. Energy range of data set does not match cross section range
reaction label 64: H1 + (Mg27_e19 ->Mg27 + gamma) / Product: Mg27_e19 / Decay product: gamma_j / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7262255.0 -> 150000000.0) vs (7262254.0 -> 150000000.0)
38. Energy range of data set does not match cross section range
reaction label 64: H1 + (Mg27_e19 ->Mg27 + gamma) / Product: Mg27_e19 / Decay product: gamma_k / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7262255.0 -> 150000000.0) vs (7262254.0 -> 150000000.0)
39. Energy range of data set does not match cross section range
reaction label 64: H1 + (Mg27_e19 ->Mg27 + gamma) / Product: Mg27_e19 / Decay product: gamma_l / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7262255.0 -> 150000000.0) vs (7262254.0 -> 150000000.0)
40. Energy range of data set does not match cross section range
reaction label 64: H1 + (Mg27_e19 ->Mg27 + gamma) / Product: Mg27_e19 / Decay product: gamma_m / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7262255.0 -> 150000000.0) vs (7262254.0 -> 150000000.0)
41. Energy range of data set does not match cross section range
reaction label 64: H1 + (Mg27_e19 ->Mg27 + gamma) / Product: Mg27_e19 / Decay product: gamma_n / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7262255.0 -> 150000000.0) vs (7262254.0 -> 150000000.0)
42. Energy range of data set does not match cross section range
reaction label 64: H1 + (Mg27_e19 ->Mg27 + gamma) / Product: Mg27_e19 / Decay product: gamma_o / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7262255.0 -> 150000000.0) vs (7262254.0 -> 150000000.0)
43. Energy range of data set does not match cross section range
reaction label 64: H1 + (Mg27_e19 ->Mg27 + gamma) / Product: Mg27_e19 / Decay product: gamma_p / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7262255.0 -> 150000000.0) vs (7262254.0 -> 150000000.0)

44. Energy range of data set does not match cross section range
reaction label 64: H1 + (Mg27_e19 -> Mg27 + gamma) / Product: Mg27_e19 / Decay product: gamma_q / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7262255.0 -> 150000000.0) vs (7262254.0 -> 150000000.0)

45. Calculated and tabulated Q values disagree.
reaction label 65: H1 + (Mg27_c -> Mg27 + gamma) (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -7468160.401260376 eV vs -7000550. eV!

46. Calculated and tabulated Q values disagree.
reaction label 66: H2 + Mg26 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -6514807.840919495 eV vs -6047544. eV!

47. Calculated and tabulated Q values disagree.
reaction label 67: H2 + (Mg26_e1 -> Mg26 + gamma) (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -8323487.840919495 eV vs -7856224. eV!

48. Calculated and tabulated Q values disagree.
reaction label 68: H2 + (Mg26_e2 -> Mg26 + gamma) (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -9453167.840919495 eV vs -8985904. eV!

49. Calculated and tabulated Q values disagree.
reaction label 69: H2 + (Mg26_e3 -> Mg26 + gamma) (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -10103107.84091949 eV vs -9635844. eV!

50. Calculated and tabulated Q values disagree.
reaction label 70: H2 + (Mg26_e4 -> Mg26 + gamma) (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -10455307.84091949 eV vs -9988044. eV!

51. Calculated and tabulated Q values disagree.
reaction label 71: H2 + (Mg26_e5 -> Mg26 + gamma) (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -10833203.84091949 eV vs -10365940. eV!

52. Calculated and tabulated Q values disagree.
reaction label 72: H2 + (Mg26_e6 -> Mg26 + gamma) (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -10846703.84091949 eV vs -10379440. eV!

53. Calculated and tabulated Q values disagree.
reaction label 73: H2 + (Mg26_e7 -> Mg26 + gamma) (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -10864603.84091949 eV vs -10397340. eV!

54. Calculated and tabulated Q values disagree.
reaction label 74: H2 + (Mg26_e8 -> Mg26 + gamma) (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -11349103.84091949 eV vs -10881840. eV!

55. Calculated and tabulated Q values disagree.
reaction label 75: H₂ + (Mg26_e9 -> Mg26 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -11415103.84091949 eV vs -10947840. eV!
56. Calculated and tabulated Q values disagree.
reaction label 76: H₂ + (Mg26_e10 -> Mg26 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -11487003.84091949 eV vs -11019740. eV!
57. Calculated and tabulated Q values disagree.
reaction label 77: H₂ + (Mg26_e11 -> Mg26 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -11805603.84091949 eV vs -11338340. eV!
58. Calculated and tabulated Q values disagree.
reaction label 78: H₂ + (Mg26_e12 -> Mg26 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -11988703.84091949 eV vs -11521440. eV!
59. Calculated and tabulated Q values disagree.
reaction label 79: H₂ + (Mg26_e13 -> Mg26 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -12204903.84091949 eV vs -11737640. eV!
60. Calculated and tabulated Q values disagree.
reaction label 80: H₂ + (Mg26_e14 -> Mg26 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -12230303.84091949 eV vs -11763040. eV!
61. Calculated and tabulated Q values disagree.
reaction label 81: H₂ + (Mg26_e15 -> Mg26 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -12640003.84091949 eV vs -12172740. eV!
62. Calculated and tabulated Q values disagree.
reaction label 82: H₂ + (Mg26_e16 -> Mg26 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -12770803.84091949 eV vs -12303540. eV!
63. Calculated and tabulated Q values disagree.
reaction label 83: H₂ + (Mg26_e17 -> Mg26 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -13135803.84091949 eV vs -12668540. eV!
64. Calculated and tabulated Q values disagree.
reaction label 84: H₂ + (Mg26_e18 -> Mg26 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -13258803.84091949 eV vs -12791540. eV!
65. Calculated and tabulated Q values disagree.
reaction label 85: H₂ + (Mg26_e19 -> Mg26 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -13392503.84091949 eV vs -12925240. eV!

66. Calculated and tabulated Q values disagree.
reaction label 86: H2 + (Mg26_c -> Mg26 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -13392503.84091949 eV vs -12925240. eV!
67. Calculated and tabulated Q values disagree.
reaction label 87: H3 + Mg25 (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -11344173.37622452 eV vs -10882930. eV!
68. Calculated and tabulated Q values disagree.
reaction label 88: H3 + (Mg25_e1 -> Mg25 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -11929263.37622452 eV vs -11468020. eV!
69. Calculated and tabulated Q values disagree.
reaction label 89: H3 + (Mg25_e2 -> Mg25 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -12318963.37622452 eV vs -11857720. eV!
70. Calculated and tabulated Q values disagree.
reaction label 90: H3 + (Mg25_e3 -> Mg25 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -12955973.37622452 eV vs -12494730. eV!
71. Calculated and tabulated Q values disagree.
reaction label 91: H3 + (Mg25_e4 -> Mg25 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -13308873.37622452 eV vs -12847630. eV!
72. Calculated and tabulated Q values disagree.
reaction label 92: H3 + (Mg25_e5 -> Mg25 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -13907973.37622452 eV vs -13446730. eV!
73. Calculated and tabulated Q values disagree.
reaction label 93: H3 + (Mg25_e6 -> Mg25 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -14081873.37622452 eV vs -13620630. eV!
74. Calculated and tabulated Q values disagree.
reaction label 94: H3 + (Mg25_e7 -> Mg25 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -14145273.37622452 eV vs -13684030. eV!
75. Calculated and tabulated Q values disagree.
reaction label 95: H3 + (Mg25_e8 -> Mg25 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -14749373.37622452 eV vs -14288130. eV!
76. Calculated and tabulated Q values disagree.
reaction label 96: H3 + (Mg25_e9 -> Mg25 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -14757873.37622452 eV vs -14296630. eV!

77. Calculated and tabulated Q values disagree.
reaction label 97: H3 + (Mg25_e10 -> Mg25 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -15251973.37622452 eV vs -14790730. eV!
78. Calculated and tabulated Q values disagree.
reaction label 98: H3 + (Mg25_c -> Mg25 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -15251943.37622452 eV vs -1.47907e7 eV!
79. Calculated and tabulated Q values disagree.
reaction label 99: He4 + Na24 (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -4103697.37204361 eV vs -3130330. eV!
80. Calculated and tabulated Q values disagree.
reaction label 100: He4 + (Na24_e1 -> Na24 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -4575987.37204361 eV vs -3602620. eV!
81. Calculated and tabulated Q values disagree.
reaction label 101: He4 + (Na24_e2 -> Na24 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -4666987.37204361 eV vs -3693620. eV!
82. Calculated and tabulated Q values disagree.
reaction label 102: He4 + (Na24_e3 -> Na24 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -5445097.37204361 eV vs -4471730. eV!
83. Calculated and tabulated Q values disagree.
reaction label 103: He4 + (Na24_e4 -> Na24 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -5448197.37204361 eV vs -4474830. eV!
84. Calculated and tabulated Q values disagree.
reaction label 104: He4 + (Na24_e5 -> Na24 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -5450197.37204361 eV vs -4476830. eV!
85. Calculated and tabulated Q values disagree.
reaction label 105: He4 + (Na24_e6 -> Na24 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -5616237.37204361 eV vs -4642870. eV!
86. Calculated and tabulated Q values disagree.
reaction label 106: He4 + (Na24_e7 -> Na24 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -5949797.37204361 eV vs -4976430. eV!
87. Calculated and tabulated Q values disagree.
reaction label 107: He4 + (Na24_e8 -> Na24 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -5989137.37204361 eV vs -5015770. eV!

88. Calculated and tabulated Q values disagree.
reaction label 108: He4 + (Na24-e9 ->Na24 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -6617097.37204361 eV vs -5643730. eV!
89. Calculated and tabulated Q values disagree.
reaction label 109: He4 + (Na24-e10 ->Na24 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -6666197.37204361 eV vs -5692830. eV!
90. Calculated and tabulated Q values disagree.
reaction label 110: He4 + (Na24-e11 ->Na24 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -7007397.37204361 eV vs -6034030. eV!
91. Calculated and tabulated Q values disagree.
reaction label 111: He4 + (Na24-e12 ->Na24 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -7081497.37204361 eV vs -6108130. eV!
92. Calculated and tabulated Q values disagree.
reaction label 112: He4 + (Na24-e13 ->Na24 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -7320497.37204361 eV vs -6347130. eV!
93. Calculated and tabulated Q values disagree.
reaction label 113: He4 + (Na24-e14 ->Na24 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -7475597.37204361 eV vs -6502230. eV!
94. Calculated and tabulated Q values disagree.
reaction label 114: He4 + (Na24-e15 ->Na24 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -7517097.37204361 eV vs -6543730. eV!
95. Calculated and tabulated Q values disagree.
reaction label 115: He4 + (Na24-e16 ->Na24 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -7692797.37204361 eV vs -6719430. eV!
96. Calculated and tabulated Q values disagree.
reaction label 116: He4 + (Na24-e17 ->Na24 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -7732197.37204361 eV vs -6758830. eV!
97. Calculated and tabulated Q values disagree.
reaction label 117: He4 + (Na24-e18 ->Na24 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -7760197.37204361 eV vs -6786830. eV!
98. Calculated and tabulated Q values disagree.
reaction label 118: He4 + (Na24-e19 ->Na24 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -7785397.37204361 eV vs -6812030. eV!

99. Calculated and tabulated Q values disagree.
reaction label 119: He4 + (Na24_c ->Na24 + gamma) (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -7785397.37204361 eV vs -6812030. eV!
100. Calculated and tabulated Q values disagree.
reaction label 121: n + He4 + Na23 + gamma (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -10116915.70431519 eV vs -1.00898e7 eV!
101. Calculated and tabulated Q values disagree.
reaction label 122: n + H1 + He4 + Ne22 + gamma (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -18914867.42734146 eV vs -1.88839e7 eV!
102. Calculated and tabulated Q values disagree.
reaction label 123: He4[multiplicity:'2'] + F20 + gamma (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -13985721.73524094 eV vs -1.39583e7 eV!
103. Calculated and tabulated Q values disagree.
reaction label 125: H1 + He4 + Ne23 + gamma (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -13249288.27990723 eV vs -1.36838e7 eV!
104. Calculated and tabulated Q values disagree.
reaction label 126: H2 + He4 + Ne22 + gamma (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -16697493.1207428 eV vs -1.66594e7 eV!
105. Multiplicity does not match sum of linked product multiplicities!
multiplicitySum label 114: Al28 + gamma total gamma multiplicity (Error # 0): summed-MultiplicityMismatch
- WARNING: Multiplicity does not match sum of linked product multiplicities! Max diff: 100.00%
106. Calculated and tabulated thresholds don't agree
production label 1: /reactionSuite/productions/production[@label='1'] / Cross section: (Error # 0): Threshold mismatch
- WARNING: Calculated and tabulated thresholds disagree: 13783299.96915859 eV vs 13546340. eV!
107. Calculated and tabulated thresholds don't agree
production label 2: /reactionSuite/productions/production[@label='2'] / Cross section: (Error # 0): Threshold mismatch
- WARNING: Calculated and tabulated thresholds disagree: 1896906.610818793 eV vs 7262254. eV!
108. Calculated and tabulated thresholds don't agree
production label 3: /reactionSuite/productions/production[@label='3'] / Cross section: (Error # 0): Threshold mismatch
- WARNING: Calculated and tabulated thresholds disagree: 3247352.775913794 eV vs 7066688. eV!

109. Energy range of data set does not match cross section range
production label 3: /reactionSuite/productions/production[@label='3'] / Product: Na24
/ Multiplicity: (Error # 0): Domain mismatch (a)
- ```
WARNING: Domain doesn't match the cross section domain: (3247353.0 -> 150000000.0) vs (7066688.0 -> 150000000.0)
```
110. Calculated and tabulated thresholds don't agree  
*production label 4: /reactionSuite/productions/production[@label='4'] / Cross section:*  
*(Error # 0): Threshold mismatch*
- ```
WARNING: Calculated and tabulated thresholds disagree: 3737298.641856466 eV vs 7066688. eV!
```
111. Energy range of data set does not match cross section range
production label 4: /reactionSuite/productions/production[@label='4'] / Product: Na24_e1
/ Multiplicity: (Error # 0): Domain mismatch (a)
- ```
WARNING: Domain doesn't match the cross section domain: (3737299.0 -> 150000000.0) vs (7066688.0 -> 150000000.0)
```
- njoy2012 Warnings:
    1. Message comes from several resonance types that do not support the calculation of angular distributions. Some of them can be used if Want\_SAMRL\_RM or Want\_SAMRML\_BW are true.  
*reconr...reconstruct pointwise cross sections in pendf format (0): RECONR/calculation of angular distribution not installed (0)*

```
---message from rdf2bw---calculation of angular distribution not installed.
 samm max legendre order: 0
```

    2. Evaluation has no unresolved resonance parameters given  
*unresr...calculation of unresolved resonance cross sections (0): No URR*

```
---message from unresr---mat 1325 has no unresolved parameters
 copy as is to nout
```

    3. Evaluation has no unresolved resonance parameters given  
*purr...probabalistic unresolved calculation (0): No URR*

```
---message from purr---mat 1325 has no unresolved parameters
 copy as is to nout
```

    4. There is bad Kalbach parameter (r(E) or otherwise)  
*check...ace consistency check (0): ACER/check energy distributions (0)*

```
check energy distributions
 consis: ep.gt.epmax 9.292258E-12 with q.lt.0 for (n,x) at e 1.000000E-11 -> 1.000000E-11
```

    5. There is bad Kalbach parameter (r(E) or otherwise)  
*check...ace consistency check (1): ACER/check energy distributions (0)*

```
check energy distributions
 consis: awr.lt.180---this is probably an error.
```

    6. There is bad Kalbach parameter (r(E) or otherwise)  
*check...ace consistency check (2): ACER/check energy distributions (0)*

- check energy distributions  
 consis: shifting eprimes greater than epmax and renorming the distribution
7. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (3): ACER/check energy distributions (0)*

check energy distributions  
 consis: ep.gt.epmax 6.504580E+01 with q.lt.0 for (n,x) at e 7.000000E+01 -> 6.506755E+01
  8. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (4): ACER/check energy distributions (0)*

check energy distributions  
 consis: awr.lt.180---this is probably an error.
  9. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (5): ACER/check energy distributions (0)*

check energy distributions  
 consis: shifting eprimes greater than epmax and renorming the distribution
  10. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (6): ACER/check energy distributions (0)*

check energy distributions  
 consis: ep.gt.epmax 9.292258E+01 with q.lt.0 for (n,x) at e 1.000000E+02 -> 9.302249E+01
  11. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (7): ACER/check energy distributions (0)*

check energy distributions  
 consis: awr.lt.180---this is probably an error.
  12. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (8): ACER/check energy distributions (0)*

check energy distributions  
 consis: shifting eprimes greater than epmax and renorming the distribution
- njoy2012 Errors:
    1. An unidentified mismatch in a photon production sum  
*check...ace consistency check (9): Gamma sum*

check photon production sum  
 consis: mismatch at 1.000000E-06 gpd= 8.067884E-02 sum= 8.068691E-02
    2. An unidentified mismatch in a photon production sum  
*check...ace consistency check (10): Gamma sum*

check photon production sum  
 consis: mismatch at 1.062500E-06 gpd= 7.826618E-02 sum= 7.827443E-02
    3. An unidentified mismatch in a photon production sum  
*check...ace consistency check (11): Gamma sum*

```
check photon production sum
 consis: mismatch at 1.125000E-06 gpd= 7.605772E-02 sum= 7.606614E-02
```

4. An unidentified mismatch in a photon production sum  
*check...ace consistency check (12): Gamma sum*

```
check photon production sum
 consis: mismatch at 1.187500E-06 gpd= 7.402614E-02 sum= 7.403474E-02
```

5. An unidentified mismatch in a photon production sum  
*check...ace consistency check (13): Gamma sum*

```
check photon production sum
 consis: mismatch at 1.250000E-06 gpd= 7.214904E-02 sum= 7.215782E-02
```

6. An unidentified mismatch in a photon production sum  
*check...ace consistency check (14): Gamma sum*

```
check photon production sum
 consis: mismatch at 1.375000E-06 gpd= 6.878671E-02 sum= 6.879581E-02
```

7. An unidentified mismatch in a photon production sum  
*check...ace consistency check (15): Gamma sum*

```
check photon production sum
 consis: mismatch at 1.500000E-06 gpd= 6.585421E-02 sum= 6.586363E-02
```

8. An unidentified mismatch in a photon production sum  
*check...ace consistency check (16): Gamma sum*

```
check photon production sum
 consis: mismatch at 1.625000E-06 gpd= 6.326716E-02 sum= 6.327689E-02
```

9. An unidentified mismatch in a photon production sum  
*check...ace consistency check (17): Gamma sum*

```
check photon production sum
 consis: mismatch at 1.750000E-06 gpd= 6.096913E-02 sum= 6.097917E-02
```

10. An unidentified mismatch in a photon production sum  
*check...ace consistency check (18): Gamma sum*

```
check photon production sum
 consis: mismatch at 1.875000E-06 gpd= 5.890419E-02 sum= 5.891453E-02
```

11. An unidentified mismatch in a photon production sum  
*check...ace consistency check (19): Gamma sum*

```
check photon production sum
 consis: mismatch at 2.000000E-06 gpd= 5.702689E-02 sum= 5.703751E-02
```

12. An unidentified mismatch in a photon production sum  
*check...ace consistency check (20): Gamma sum*

```
check photon production sum
 consis: mismatch at 2.187500E-06 gpd= 5.452047E-02 sum= 5.453150E-02
```

13. An unidentified mismatch in a photon production sum  
*check...ace consistency check (21): Gamma sum*

```
check photon production sum
 consis: mismatch at 2.375000E-06 gpd= 5.231995E-02 sum= 5.233139E-02
```

14. An unidentified mismatch in a photon production sum  
*check...ace consistency check (22): Gamma sum*

```
check photon production sum
 consis: mismatch at 2.562500E-06 gpd= 5.036568E-02 sum= 5.037751E-02
```

15. An unidentified mismatch in a photon production sum  
*check...ace consistency check (23): Gamma sum*

```
check photon production sum
 consis: mismatch at 2.750000E-06 gpd= 4.861959E-02 sum= 4.863179E-02
```

16. An unidentified mismatch in a photon production sum  
*check...ace consistency check (24): Gamma sum*

```
check photon production sum
 consis: mismatch at 2.937500E-06 gpd= 4.704303E-02 sum= 4.705559E-02
```

17. An unidentified mismatch in a photon production sum  
*check...ace consistency check (25): Gamma sum*

```
check photon production sum
 consis: mismatch at 3.125000E-06 gpd= 4.560586E-02 sum= 4.561877E-02
```

18. An unidentified mismatch in a photon production sum  
*check...ace consistency check (26): Gamma sum*

```
check photon production sum
 consis: mismatch at 3.312500E-06 gpd= 4.429255E-02 sum= 4.430581E-02
```

19. An unidentified mismatch in a photon production sum  
*check...ace consistency check (27): Gamma sum*

```
check photon production sum
 consis: mismatch at 3.500000E-06 gpd= 4.308630E-02 sum= 4.309990E-02
```

20. An unidentified mismatch in a photon production sum  
*check...ace consistency check (28): Gamma sum*

```
check photon production sum
 consis: mismatch at 3.875000E-06 gpd= 4.094208E-02 sum= 4.095633E-02
```

21. An unidentified mismatch in a photon production sum  
*check...ace consistency check (29): Gamma sum*

```
check photon production sum
 consis: mismatch at 4.250000E-06 gpd= 3.908836E-02 sum= 3.910323E-02
```

22. An unidentified mismatch in a photon production sum  
*check...ace consistency check (30): Gamma sum*

```
check photon production sum
 consis: mismatch at 4.625000E-06 gpd= 3.746489E-02 sum= 3.748035E-02
```

23. An unidentified mismatch in a photon production sum  
*check...ace consistency check (31): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.000000E-06 gpd= 3.602991E-02 sum= 3.604595E-02
```

24. An unidentified mismatch in a photon production sum  
*check...ace consistency check (32): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.312500E-06 gpd= 3.495224E-02 sum= 3.496874E-02
```

25. An unidentified mismatch in a photon production sum  
*check...ace consistency check (33): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.625000E-06 gpd= 3.396331E-02 sum= 3.398025E-02
```

26. An unidentified mismatch in a photon production sum  
*check...ace consistency check (34): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.937500E-06 gpd= 3.305350E-02 sum= 3.307088E-02
```

27. An unidentified mismatch in a photon production sum  
*check...ace consistency check (35): Gamma sum*

```
check photon production sum
 consis: mismatch at 6.250000E-06 gpd= 3.221280E-02 sum= 3.223061E-02
```

28. An unidentified mismatch in a photon production sum  
*check...ace consistency check (36): Gamma sum*

```
check photon production sum
 consis: mismatch at 6.875000E-06 gpd= 3.070666E-02 sum= 3.072529E-02
```

29. An unidentified mismatch in a photon production sum  
*check...ace consistency check (37): Gamma sum*

```
check photon production sum
 consis: mismatch at 7.500000E-06 gpd= 2.939281E-02 sum= 2.941223E-02
```

30. An unidentified mismatch in a photon production sum  
*check...ace consistency check (38): Gamma sum*

```
check photon production sum
 consis: mismatch at 8.125000E-06 gpd= 2.823349E-02 sum= 2.825366E-02
```

31. An unidentified mismatch in a photon production sum  
*check...ace consistency check (39): Gamma sum*

```
check photon production sum
 consis: mismatch at 8.750000E-06 gpd= 2.720257E-02 sum= 2.722348E-02
```

32. An unidentified mismatch in a photon production sum  
*check...ace consistency check (40): Gamma sum*

```
check photon production sum
 consis: mismatch at 9.375000E-06 gpd= 2.627630E-02 sum= 2.629792E-02
```

33. An unidentified mismatch in a photon production sum  
*check...ace consistency check (41): Gamma sum*

```
check photon production sum
 consis: mismatch at 1.000000E-05 gpd= 2.543616E-02 sum= 2.545845E-02
```

34. An unidentified mismatch in a photon production sum  
*check...ace consistency check (42): Gamma sum*

```
check photon production sum
 consis: mismatch at 1.062500E-05 gpd= 2.467121E-02 sum= 2.469417E-02
```

35. An unidentified mismatch in a photon production sum  
*check...ace consistency check (43): Gamma sum*

```
check photon production sum
 consis: mismatch at 1.125000E-05 gpd= 2.397083E-02 sum= 2.399443E-02
```

36. An unidentified mismatch in a photon production sum  
*check...ace consistency check (44): Gamma sum*

```
check photon production sum
 consis: mismatch at 1.187500E-05 gpd= 2.332641E-02 sum= 2.335064E-02
```

37. An unidentified mismatch in a photon production sum  
*check...ace consistency check (45): Gamma sum*

```
check photon production sum
 consis: mismatch at 1.250000E-05 gpd= 2.273086E-02 sum= 2.275569E-02
```

38. An unidentified mismatch in a photon production sum  
*check...ace consistency check (46): Gamma sum*

```
check photon production sum
 consis: mismatch at 1.375000E-05 gpd= 2.166374E-02 sum= 2.168975E-02
```

39. An unidentified mismatch in a photon production sum  
*check...ace consistency check (47): Gamma sum*

```
check photon production sum
 consis: mismatch at 1.500000E-05 gpd= 2.073267E-02 sum= 2.075980E-02
```

40. An unidentified mismatch in a photon production sum  
*check...ace consistency check (48): Gamma sum*

```
check photon production sum
 consis: mismatch at 1.625000E-05 gpd= 1.991094E-02 sum= 1.993914E-02
```

41. An unidentified mismatch in a photon production sum  
*check...ace consistency check (49): Gamma sum*

```
check photon production sum
 consis: mismatch at 1.750000E-05 gpd= 1.917964E-02 sum= 1.920889E-02
```

42. An unidentified mismatch in a photon production sum  
*check...ace consistency check (50): Gamma sum*

```
check photon production sum
 consis: mismatch at 1.875000E-05 gpd= 1.852251E-02 sum= 1.855275E-02
```

43. An unidentified mismatch in a photon production sum  
*check...ace consistency check (51): Gamma sum*

```
check photon production sum
 consis: mismatch at 2.000000E-05 gpd= 1.792637E-02 sum= 1.795758E-02
```

44. An unidentified mismatch in a photon production sum  
*check...ace consistency check (52): Gamma sum*

```
check photon production sum
 consis: mismatch at 2.187500E-05 gpd= 1.712976E-02 sum= 1.716237E-02
```

45. An unidentified mismatch in a photon production sum  
*check...ace consistency check (53): Gamma sum*

```
check photon production sum
 consis: mismatch at 2.375000E-05 gpd= 1.642948E-02 sum= 1.646342E-02
```

46. An unidentified mismatch in a photon production sum  
*check...ace consistency check (54): Gamma sum*

```
check photon production sum
 consis: mismatch at 2.562500E-05 gpd= 1.580721E-02 sum= 1.584243E-02
```

47. An unidentified mismatch in a photon production sum  
*check...ace consistency check (55): Gamma sum*

```
check photon production sum
 consis: mismatch at 2.750000E-05 gpd= 1.525003E-02 sum= 1.528648E-02
```

48. An unidentified mismatch in a photon production sum  
*check...ace consistency check (56): Gamma sum*

```
check photon production sum
 consis: mismatch at 2.937500E-05 gpd= 1.474680E-02 sum= 1.478445E-02
```

49. An unidentified mismatch in a photon production sum  
*check...ace consistency check (57): Gamma sum*

```
check photon production sum
 consis: mismatch at 3.125000E-05 gpd= 1.428871E-02 sum= 1.432751E-02
```

50. An unidentified mismatch in a photon production sum  
*check...ace consistency check (58): Gamma sum*

```
check photon production sum
 consis: mismatch at 3.312500E-05 gpd= 1.386986E-02 sum= 1.390978E-02
```

51. An unidentified mismatch in a photon production sum  
*check...ace consistency check (59): Gamma sum*

```
check photon production sum
 consis: mismatch at 3.500000E-05 gpd= 1.348494E-02 sum= 1.352594E-02
```

52. An unidentified mismatch in a photon production sum  
*check...ace consistency check (60): Gamma sum*

```
check photon production sum
 consis: mismatch at 3.875000E-05 gpd= 1.280016E-02 sum= 1.284325E-02
```

53. An unidentified mismatch in a photon production sum  
*check...ace consistency check (61): Gamma sum*

```
check photon production sum
 consis: mismatch at 4.250000E-05 gpd= 1.220752E-02 sum= 1.225259E-02
```

54. An unidentified mismatch in a photon production sum  
*check...ace consistency check (62): Gamma sum*

```
check photon production sum
 consis: mismatch at 4.625000E-05 gpd= 1.168796E-02 sum= 1.173493E-02
```

55. An unidentified mismatch in a photon production sum  
*check...ace consistency check (63): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.000000E-05 gpd= 1.122777E-02 sum= 1.127656E-02
```

56. An unidentified mismatch in a photon production sum  
*check...ace consistency check (64): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.312500E-05 gpd= 1.088183E-02 sum= 1.093207E-02
```

57. An unidentified mismatch in a photon production sum  
*check...ace consistency check (65): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.625000E-05 gpd= 1.056460E-02 sum= 1.061625E-02
```

58. An unidentified mismatch in a photon production sum  
*check...ace consistency check (66): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.937500E-05 gpd= 1.027251E-02 sum= 1.032554E-02
```

59. An unidentified mismatch in a photon production sum  
*check...ace consistency check (67): Gamma sum*

```
check photon production sum
 consis: mismatch at 6.250000E-05 gpd= 1.000239E-02 sum= 1.005674E-02
```

60. An unidentified mismatch in a photon production sum  
*check...ace consistency check (68): Gamma sum*

```
check photon production sum
 consis: mismatch at 6.875000E-05 gpd= 9.517899E-03 sum= 9.574818E-03
```

61. An unidentified mismatch in a photon production sum  
*check...ace consistency check (69): Gamma sum*

```
check photon production sum
 consis: mismatch at 7.500000E-05 gpd= 9.094613E-03 sum= 9.153970E-03
```

62. An unidentified mismatch in a photon production sum  
*check...ace consistency check (70): Gamma sum*

```
check photon production sum
 consis: mismatch at 8.125000E-05 gpd= 8.720557E-03 sum= 8.782245E-03
```

63. An unidentified mismatch in a photon production sum  
*check...ace consistency check (71): Gamma sum*

```
check photon production sum
 consis: mismatch at 8.750000E-05 gpd= 8.386999E-03 sum= 8.450922E-03
```

64. An unidentified mismatch in a photon production sum  
*check...ace consistency check (72): Gamma sum*

```
check photon production sum
 consis: mismatch at 9.375000E-05 gpd= 8.086909E-03 sum= 8.152982E-03
```

65. An unidentified mismatch in a photon production sum  
*check...ace consistency check (73): Gamma sum*

```
check photon production sum
 consis: mismatch at 1.000000E-04 gpd= 7.814788E-03 sum= 7.882930E-03
```

66. An unidentified mismatch in a photon production sum  
*check...ace consistency check (74): Gamma sum*

```
check photon production sum
 consis: mismatch at 1.062500E-04 gpd= 7.566676E-03 sum= 7.636815E-03
```

67. An unidentified mismatch in a photon production sum  
*check...ace consistency check (75): Gamma sum*

```
check photon production sum
 consis: mismatch at 1.125000E-04 gpd= 7.339202E-03 sum= 7.411275E-03
```

68. An unidentified mismatch in a photon production sum  
*check...ace consistency check (76): Gamma sum*

```
check photon production sum
 consis: mismatch at 1.187500E-04 gpd= 7.129631E-03 sum= 7.203576E-03
```

69. An unidentified mismatch in a photon production sum  
*check...ace consistency check (77): Gamma sum*

```
check photon production sum
 consis: mismatch at 1.250000E-04 gpd= 6.935706E-03 sum= 7.011469E-03
```

70. An unidentified mismatch in a photon production sum  
*check...ace consistency check (78): Gamma sum*

```
check photon production sum
 consis: mismatch at 1.375000E-04 gpd= 6.587596E-03 sum= 6.666843E-03
```

71. An unidentified mismatch in a photon production sum  
*check...ace consistency check (79): Gamma sum*

```
check photon production sum
 consis: mismatch at 1.500000E-04 gpd= 6.283143E-03 sum= 6.365695E-03
```

72. An unidentified mismatch in a photon production sum  
*check...ace consistency check (80): Gamma sum*

```
check photon production sum
 consis: mismatch at 1.625000E-04 gpd= 6.013835E-03 sum= 6.099536E-03
```

73. An unidentified mismatch in a photon production sum  
*check...ace consistency check (81): Gamma sum*

```
check photon production sum
 consis: mismatch at 1.750000E-04 gpd= 5.773421E-03 sum= 5.862131E-03
```

74. An unidentified mismatch in a photon production sum  
*check...ace consistency check (82): Gamma sum*

```
check photon production sum
 consis: mismatch at 1.875000E-04 gpd= 5.556949E-03 sum= 5.648543E-03
```

75. An unidentified mismatch in a photon production sum  
*check...ace consistency check (83): Gamma sum*

```
check photon production sum
 consis: mismatch at 2.000000E-04 gpd= 5.360509E-03 sum= 5.454870E-03
```

76. An unidentified mismatch in a photon production sum  
*check...ace consistency check (84): Gamma sum*

```
check photon production sum
 consis: mismatch at 2.187500E-04 gpd= 5.097357E-03 sum= 5.195679E-03
```

77. An unidentified mismatch in a photon production sum  
*check...ace consistency check (85): Gamma sum*

```
check photon production sum
 consis: mismatch at 2.375000E-04 gpd= 4.865328E-03 sum= 4.967408E-03
```

78. An unidentified mismatch in a photon production sum  
*check...ace consistency check (86): Gamma sum*

```
check photon production sum
 consis: mismatch at 2.562500E-04 gpd= 4.658652E-03 sum= 4.764311E-03
```

79. An unidentified mismatch in a photon production sum  
*check...ace consistency check (87): Gamma sum*

```
check photon production sum
 consis: mismatch at 2.750000E-04 gpd= 4.473034E-03 sum= 4.582111E-03
```

80. An unidentified mismatch in a photon production sum  
*check...ace consistency check (88): Gamma sum*

```
check photon production sum
 consis: mismatch at 2.937500E-04 gpd= 4.305047E-03 sum= 4.417398E-03
```

81. An unidentified mismatch in a photon production sum  
*check...ace consistency check (89): Gamma sum*

```
check photon production sum
 consis: mismatch at 3.125000E-04 gpd= 4.151981E-03 sum= 4.267473E-03
```

82. An unidentified mismatch in a photon production sum  
*check...ace consistency check (90): Gamma sum*

```
check photon production sum
 consis: mismatch at 3.312500E-04 gpd= 4.011786E-03 sum= 4.130300E-03
```

83. An unidentified mismatch in a photon production sum  
*check...ace consistency check (91): Gamma sum*

```
check photon production sum
 consis: mismatch at 3.500000E-04 gpd= 3.882735E-03 sum= 4.004161E-03
```

84. An unidentified mismatch in a photon production sum  
*check...ace consistency check (92): Gamma sum*

```
check photon production sum
 consis: mismatch at 3.687500E-04 gpd= 3.763419E-03 sum= 3.887657E-03
```

85. An unidentified mismatch in a photon production sum  
*check...ace consistency check (93): Gamma sum*

```
check photon production sum
 consis: mismatch at 3.875000E-04 gpd= 3.652668E-03 sum= 3.779625E-03
```

86. An unidentified mismatch in a photon production sum  
*check...ace consistency check (94): Gamma sum*

```
check photon production sum
 consis: mismatch at 4.250000E-04 gpd= 3.453076E-03 sum= 3.585222E-03
```

87. An unidentified mismatch in a photon production sum  
*check...ace consistency check (95): Gamma sum*

```
check photon production sum
 consis: mismatch at 4.625000E-04 gpd= 3.277758E-03 sum= 3.414796E-03
```

88. An unidentified mismatch in a photon production sum  
*check...ace consistency check (96): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.000000E-04 gpd= 3.122185E-03 sum= 3.263856E-03
```

89. An unidentified mismatch in a photon production sum  
*check...ace consistency check (97): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.312500E-04 gpd= 3.005103E-03 sum= 3.150458E-03
```

90. An unidentified mismatch in a photon production sum  
*check...ace consistency check (98): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.625000E-04 gpd= 2.897732E-03 sum= 3.046628E-03
```

91. An unidentified mismatch in a photon production sum  
*check...ace consistency check (99): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.937500E-04 gpd= 2.798828E-03 sum= 2.951133E-03
```

92. An unidentified mismatch in a photon production sum  
*check...ace consistency check (100): Gamma sum*

```
check photon production sum
 consis: mismatch at 6.250000E-04 gpd= 2.707346E-03 sum= 2.862942E-03
```

93. An unidentified mismatch in a photon production sum  
*check...ace consistency check (101): Gamma sum*

```
check photon production sum
 consis: mismatch at 6.562500E-04 gpd= 2.622404E-03 sum= 2.781182E-03
```

94. An unidentified mismatch in a photon production sum  
*check...ace consistency check (102): Gamma sum*

```
check photon production sum
 consis: mismatch at 6.875000E-04 gpd= 2.543276E-03 sum= 2.705135E-03
```

95. An unidentified mismatch in a photon production sum  
*check...ace consistency check (103): Gamma sum*

```
check photon production sum
 consis: mismatch at 7.500000E-04 gpd= 2.400044E-03 sum= 2.567795E-03
```

96. An unidentified mismatch in a photon production sum  
*check...ace consistency check (104): Gamma sum*

```
check photon production sum
 consis: mismatch at 8.125000E-04 gpd= 2.273644E-03 sum= 2.446972E-03
```

97. An unidentified mismatch in a photon production sum  
*check...ace consistency check (105): Gamma sum*

```
check photon production sum
 consis: mismatch at 8.750000E-04 gpd= 2.161102E-03 sum= 2.339736E-03
```

98. An unidentified mismatch in a photon production sum  
*check...ace consistency check (106): Gamma sum*

```

check photon production sum
 consis: mismatch at 9.375000E-04 gpd= 2.060095E-03 sum= 2.243799E-03

99. An unidentified mismatch in a photon production sum
check...ace consistency check (107): Gamma sum

check photon production sum
 consis: mismatch at 1.000000E-03 gpd= 1.968814E-03 sum= 2.157381E-03

100. An unidentified mismatch in a photon production sum
check...ace consistency check (108): Gamma sum

check photon production sum
 consis: mismatch at 1.062500E-03 gpd= 1.885850E-03 sum= 2.079100E-03

101. An unidentified mismatch in a photon production sum
check...ace consistency check (109): Gamma sum

check photon production sum
 consis: mismatch at 1.125000E-03 gpd= 1.810053E-03 sum= 2.007829E-03

102. An unidentified mismatch in a photon production sum
check...ace consistency check (110): Gamma sum

check photon production sum
 consis: mismatch at 1.187500E-03 gpd= 1.740485E-03 sum= 1.942647E-03

103. An unidentified mismatch in a photon production sum
check...ace consistency check (111): Gamma sum

check photon production sum
 consis: mismatch at 1.250000E-03 gpd= 1.676368E-03 sum= 1.882793E-03

104. An unidentified mismatch in a photon production sum
check...ace consistency check (112): Gamma sum

check photon production sum
 consis: mismatch at 1.375000E-03 gpd= 1.562000E-03 sum= 1.776639E-03

105. An unidentified mismatch in a photon production sum
check...ace consistency check (113): Gamma sum

check photon production sum
 consis: mismatch at 1.500000E-03 gpd= 1.462878E-03 sum= 1.685394E-03

106. An unidentified mismatch in a photon production sum
check...ace consistency check (114): Gamma sum

check photon production sum
 consis: mismatch at 1.625000E-03 gpd= 1.376037E-03 sum= 1.606168E-03

107. An unidentified mismatch in a photon production sum
check...ace consistency check (115): Gamma sum

check photon production sum
 consis: mismatch at 1.750000E-03 gpd= 1.299264E-03 sum= 1.536814E-03

```

108. An unidentified mismatch in a photon production sum  
*check...ace consistency check (116): Gamma sum*

```
check photon production sum
 consis: mismatch at 1.875000E-03 gpd= 1.230851E-03 sum= 1.475676E-03
```

109. An unidentified mismatch in a photon production sum  
*check...ace consistency check (117): Gamma sum*

```
check photon production sum
 consis: mismatch at 2.000000E-03 gpd= 1.169467E-03 sum= 1.421465E-03
```

110. An unidentified mismatch in a photon production sum  
*check...ace consistency check (118): Gamma sum*

```
check photon production sum
 consis: mismatch at 2.187500E-03 gpd= 1.088373E-03 sum= 1.351038E-03
```

111. An unidentified mismatch in a photon production sum  
*check...ace consistency check (119): Gamma sum*

```
check photon production sum
 consis: mismatch at 2.375000E-03 gpd= 1.018141E-03 sum= 1.291476E-03
```

112. An unidentified mismatch in a photon production sum  
*check...ace consistency check (120): Gamma sum*

```
check photon production sum
 consis: mismatch at 2.562500E-03 gpd= 9.568113E-04 sum= 1.240946E-03
```

113. An unidentified mismatch in a photon production sum  
*check...ace consistency check (121): Gamma sum*

```
check photon production sum
 consis: mismatch at 2.750000E-03 gpd= 9.029529E-04 sum= 1.198155E-03
```

114. An unidentified mismatch in a photon production sum  
*check...ace consistency check (122): Gamma sum*

```
check photon production sum
 consis: mismatch at 2.937500E-03 gpd= 8.555054E-04 sum= 1.162196E-03
```

115. An unidentified mismatch in a photon production sum  
*check...ace consistency check (123): Gamma sum*

```
check photon production sum
 consis: mismatch at 3.125000E-03 gpd= 8.137105E-04 sum= 1.132500E-03
```

116. An unidentified mismatch in a photon production sum  
*check...ace consistency check (124): Gamma sum*

```
check photon production sum
 consis: mismatch at 3.312500E-03 gpd= 7.770774E-04 sum= 1.108828E-03
```

117. An unidentified mismatch in a photon production sum  
*check...ace consistency check (125): Gamma sum*

- ```

check photon production sum
  consis: mismatch at 3.500000E-03 gpd= 7.453501E-04 sum= 1.091265E-03
```
118. An unidentified mismatch in a photon production sum
check...ace consistency check (126): Gamma sum
- ```

check photon production sum
 consis: mismatch at 3.687500E-03 gpd= 7.185301E-04 sum= 1.080297E-03
```
119. An unidentified mismatch in a photon production sum  
*check...ace consistency check (127): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 3.968750E-03 gpd= 6.882957E-04 sum= 1.078663E-03
```
120. An unidentified mismatch in a photon production sum
check...ace consistency check (128): Gamma sum
- ```

check photon production sum
 consis: mismatch at 4.109375E-03 gpd= 6.787384E-04 sum= 1.086840E-03
```
121. An unidentified mismatch in a photon production sum  
*check...ace consistency check (129): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 4.250000E-03 gpd= 6.731550E-04 sum= 1.101987E-03
```
122. An unidentified mismatch in a photon production sum
check...ace consistency check (130): Gamma sum
- ```

check photon production sum
 consis: mismatch at 4.378907E-03 gpd= 6.735743E-04 sum= 1.125827E-03
```
123. An unidentified mismatch in a photon production sum  
*check...ace consistency check (131): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 4.507813E-03 gpd= 6.797467E-04 sum= 1.160606E-03
```
124. An unidentified mismatch in a photon production sum
check...ace consistency check (132): Gamma sum
- ```

check photon production sum
 consis: mismatch at 4.636719E-03 gpd= 6.939688E-04 sum= 1.211063E-03
```
125. An unidentified mismatch in a photon production sum  
*check...ace consistency check (133): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 4.765625E-03 gpd= 7.202353E-04 sum= 1.285405E-03
```
126. An unidentified mismatch in a photon production sum
check...ace consistency check (134): Gamma sum
- ```

check photon production sum
 consis: mismatch at 4.882813E-03 gpd= 7.598505E-04 sum= 1.384758E-03
```

127. An unidentified mismatch in a photon production sum  
*check...ace consistency check (135): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.000000E-03 gpd= 8.209598E-04 sum= 1.528531E-03
```

128. An unidentified mismatch in a photon production sum  
*check...ace consistency check (136): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.073503E-03 gpd= 8.768359E-04 sum= 1.655117E-03
```

129. An unidentified mismatch in a photon production sum  
*check...ace consistency check (137): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.147006E-03 gpd= 9.519778E-04 sum= 1.822179E-03
```

130. An unidentified mismatch in a photon production sum  
*check...ace consistency check (138): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.220509E-03 gpd= 1.055048E-03 sum= 2.048281E-03
```

131. An unidentified mismatch in a photon production sum  
*check...ace consistency check (139): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.294011E-03 gpd= 1.200043E-03 sum= 2.363575E-03
```

132. An unidentified mismatch in a photon production sum  
*check...ace consistency check (140): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.332512E-03 gpd= 1.300481E-03 sum= 2.581043E-03
```

133. An unidentified mismatch in a photon production sum  
*check...ace consistency check (141): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.371013E-03 gpd= 1.424128E-03 sum= 2.848314E-03
```

134. An unidentified mismatch in a photon production sum  
*check...ace consistency check (142): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.409514E-03 gpd= 1.578204E-03 sum= 3.181119E-03
```

135. An unidentified mismatch in a photon production sum  
*check...ace consistency check (143): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.448015E-03 gpd= 1.773423E-03 sum= 3.602775E-03
```

136. An unidentified mismatch in a photon production sum  
*check...ace consistency check (144): Gamma sum*

- ```

check photon production sum
  consis: mismatch at 5.479517E-03 gpd= 1.974877E-03 sum= 4.038092E-03

```
137. An unidentified mismatch in a photon production sum
check...ace consistency check (145): Gamma sum
- ```

check photon production sum
 consis: mismatch at 5.511018E-03 gpd= 2.226931E-03 sum= 4.583271E-03

```
138. An unidentified mismatch in a photon production sum  
*check...ace consistency check (146): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 5.542519E-03 gpd= 2.547143E-03 sum= 5.276862E-03

```
139. An unidentified mismatch in a photon production sum
check...ace consistency check (147): Gamma sum
- ```

check photon production sum
 consis: mismatch at 5.574020E-03 gpd= 2.962107E-03 sum= 6.177298E-03

```
140. An unidentified mismatch in a photon production sum  
*check...ace consistency check (148): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 5.593271E-03 gpd= 3.280743E-03 sum= 6.869704E-03

```
141. An unidentified mismatch in a photon production sum
check...ace consistency check (149): Gamma sum
- ```

check photon production sum
 consis: mismatch at 5.612522E-03 gpd= 3.664269E-03 sum= 7.704232E-03

```
142. An unidentified mismatch in a photon production sum  
*check...ace consistency check (150): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 5.631773E-03 gpd= 4.131511E-03 sum= 8.722388E-03

```
143. An unidentified mismatch in a photon production sum
check...ace consistency check (151): Gamma sum
- ```

check photon production sum
 consis: mismatch at 5.651023E-03 gpd= 4.708682E-03 sum= 9.982028E-03

```
144. An unidentified mismatch in a photon production sum  
*check...ace consistency check (152): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 5.668524E-03 gpd= 5.360064E-03 sum= 1.140582E-02

```
145. An unidentified mismatch in a photon production sum
check...ace consistency check (153): Gamma sum
- ```

check photon production sum
 consis: mismatch at 5.686024E-03 gpd= 6.173198E-03 sum= 1.318594E-02

```

146. An unidentified mismatch in a photon production sum  
*check...ace consistency check (154): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.694775E-03 gpd= 6.657880E-03 sum= 1.424826E-02
```

147. An unidentified mismatch in a photon production sum  
*check...ace consistency check (155): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.703525E-03 gpd= 7.206828E-03 sum= 1.545242E-02
```

148. An unidentified mismatch in a photon production sum  
*check...ace consistency check (156): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.712275E-03 gpd= 7.830827E-03 sum= 1.682242E-02
```

149. An unidentified mismatch in a photon production sum  
*check...ace consistency check (157): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.721025E-03 gpd= 8.543727E-03 sum= 1.838901E-02
```

150. An unidentified mismatch in a photon production sum  
*check...ace consistency check (158): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.730651E-03 gpd= 9.458094E-03 sum= 2.039999E-02
```

151. An unidentified mismatch in a photon production sum  
*check...ace consistency check (159): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.740276E-03 gpd= 1.053675E-02 sum= 2.277459E-02
```

152. An unidentified mismatch in a photon production sum  
*check...ace consistency check (160): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.749902E-03 gpd= 1.182183E-02 sum= 2.560638E-02
```

153. An unidentified mismatch in a photon production sum  
*check...ace consistency check (161): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.759527E-03 gpd= 1.336927E-02 sum= 2.901971E-02
```

154. An unidentified mismatch in a photon production sum  
*check...ace consistency check (162): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.769153E-03 gpd= 1.525618E-02 sum= 3.318604E-02
```

155. An unidentified mismatch in a photon production sum  
*check...ace consistency check (163): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.773966E-03 gpd= 1.635879E-02 sum= 3.562245E-02
```

156. An unidentified mismatch in a photon production sum  
*check...ace consistency check (164): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.778778E-03 gpd= 1.758920E-02 sum= 3.834267E-02
```

157. An unidentified mismatch in a photon production sum  
*check...ace consistency check (165): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.783591E-03 gpd= 1.896859E-02 sum= 4.139381E-02
```

158. An unidentified mismatch in a photon production sum  
*check...ace consistency check (166): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.788403E-03 gpd= 2.052135E-02 sum= 4.483019E-02
```

159. An unidentified mismatch in a photon production sum  
*check...ace consistency check (167): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.793216E-03 gpd= 2.227855E-02 sum= 4.872109E-02
```

160. An unidentified mismatch in a photon production sum  
*check...ace consistency check (168): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.798028E-03 gpd= 2.427689E-02 sum= 5.314822E-02
```

161. An unidentified mismatch in a photon production sum  
*check...ace consistency check (169): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.801091E-03 gpd= 2.569531E-02 sum= 5.629195E-02
```

162. An unidentified mismatch in a photon production sum  
*check...ace consistency check (170): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.804154E-03 gpd= 2.724337E-02 sum= 5.972416E-02
```

163. An unidentified mismatch in a photon production sum  
*check...ace consistency check (171): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.807217E-03 gpd= 2.893581E-02 sum= 6.347783E-02
```

164. An unidentified mismatch in a photon production sum  
*check...ace consistency check (172): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.810279E-03 gpd= 3.079191E-02 sum= 6.759591E-02
```

165. An unidentified mismatch in a photon production sum  
*check...ace consistency check (173): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.813342E-03 gpd= 3.283886E-02 sum= 7.213891E-02
```

166. An unidentified mismatch in a photon production sum  
*check...ace consistency check (174): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.816404E-03 gpd= 3.510226E-02 sum= 7.716393E-02
```

167. An unidentified mismatch in a photon production sum  
*check...ace consistency check (175): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.819467E-03 gpd= 3.761333E-02 sum= 8.274068E-02
```

168. An unidentified mismatch in a photon production sum  
*check...ace consistency check (176): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.822529E-03 gpd= 4.040679E-02 sum= 8.894670E-02
```

169. An unidentified mismatch in a photon production sum  
*check...ace consistency check (177): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.824936E-03 gpd= 4.282991E-02 sum= 9.433162E-02
```

170. An unidentified mismatch in a photon production sum  
*check...ace consistency check (178): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.827342E-03 gpd= 4.547914E-02 sum= 1.002206E-01
```

171. An unidentified mismatch in a photon production sum  
*check...ace consistency check (179): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.829749E-03 gpd= 4.838596E-02 sum= 1.066839E-01
```

172. An unidentified mismatch in a photon production sum  
*check...ace consistency check (180): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.832155E-03 gpd= 5.158207E-02 sum= 1.137924E-01
```

173. An unidentified mismatch in a photon production sum  
*check...ace consistency check (181): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.834562E-03 gpd= 5.511012E-02 sum= 1.216413E-01
```

174. An unidentified mismatch in a photon production sum  
*check...ace consistency check (182): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.836968E-03 gpd= 5.901425E-02 sum= 1.303293E-01
```

175. An unidentified mismatch in a photon production sum  
*check...ace consistency check (183): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.839374E-03 gpd= 6.335155E-02 sum= 1.399837E-01
```

176. An unidentified mismatch in a photon production sum  
*check...ace consistency check (184): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.841780E-03 gpd= 6.818834E-02 sum= 1.507530E-01
```

177. An unidentified mismatch in a photon production sum  
*check...ace consistency check (185): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.844077E-03 gpd= 7.334496E-02 sum= 1.622375E-01
```

178. An unidentified mismatch in a photon production sum  
*check...ace consistency check (186): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.846374E-03 gpd= 7.911217E-02 sum= 1.750851E-01
```

179. An unidentified mismatch in a photon production sum  
*check...ace consistency check (187): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.848671E-03 gpd= 8.558988E-02 sum= 1.895194E-01
```

180. An unidentified mismatch in a photon production sum  
*check...ace consistency check (188): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.850968E-03 gpd= 9.289887E-02 sum= 2.058103E-01
```

181. An unidentified mismatch in a photon production sum  
*check...ace consistency check (189): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.853265E-03 gpd= 1.011855E-01 sum= 2.242852E-01
```

182. An unidentified mismatch in a photon production sum  
*check...ace consistency check (190): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.854414E-03 gpd= 1.057519E-01 sum= 2.344677E-01
```

183. An unidentified mismatch in a photon production sum  
*check...ace consistency check (191): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.855562E-03 gpd= 1.106284E-01 sum= 2.453434E-01
```

184. An unidentified mismatch in a photon production sum  
*check...ace consistency check (192): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.856711E-03 gpd= 1.158529E-01 sum= 2.569966E-01
```

185. An unidentified mismatch in a photon production sum  
*check...ace consistency check (193): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.857859E-03 gpd= 1.214493E-01 sum= 2.694812E-01
```

186. An unidentified mismatch in a photon production sum  
*check...ace consistency check (194): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.859007E-03 gpd= 1.274595E-01 sum= 2.828906E-01
```

187. An unidentified mismatch in a photon production sum  
*check...ace consistency check (195): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.860155E-03 gpd= 1.339260E-01 sum= 2.973202E-01
```

188. An unidentified mismatch in a photon production sum  
*check...ace consistency check (196): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.861359E-03 gpd= 1.412509E-01 sum= 3.136672E-01
```

189. An unidentified mismatch in a photon production sum  
*check...ace consistency check (197): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.862562E-03 gpd= 1.491864E-01 sum= 3.313793E-01
```

190. An unidentified mismatch in a photon production sum  
*check...ace consistency check (198): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.863765E-03 gpd= 1.578089E-01 sum= 3.506276E-01
```

191. An unidentified mismatch in a photon production sum  
*check...ace consistency check (199): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.864968E-03 gpd= 1.671985E-01 sum= 3.715912E-01
```

192. An unidentified mismatch in a photon production sum  
*check...ace consistency check (200): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.866171E-03 gpd= 1.774470E-01 sum= 3.944758E-01
```

193. An unidentified mismatch in a photon production sum  
*check...ace consistency check (201): Gamma sum*

- ```

check photon production sum
  consis: mismatch at 5.867374E-03 gpd= 1.886603E-01 sum= 4.195180E-01
```
194. An unidentified mismatch in a photon production sum
check...ace consistency check (202): Gamma sum
- ```

check photon production sum
 consis: mismatch at 5.868577E-03 gpd= 2.009608E-01 sum= 4.469923E-01
```
195. An unidentified mismatch in a photon production sum  
*check...ace consistency check (203): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 5.869780E-03 gpd= 2.144909E-01 sum= 4.772175E-01
```
196. An unidentified mismatch in a photon production sum
check...ace consistency check (204): Gamma sum
- ```

check photon production sum
 consis: mismatch at 5.870984E-03 gpd= 2.294300E-01 sum= 5.105948E-01
```
197. An unidentified mismatch in a photon production sum  
*check...ace consistency check (205): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 5.872187E-03 gpd= 2.459478E-01 sum= 5.475047E-01
```
198. An unidentified mismatch in a photon production sum
check...ace consistency check (206): Gamma sum
- ```

check photon production sum
 consis: mismatch at 5.873390E-03 gpd= 2.642848E-01 sum= 5.884856E-01
```
199. An unidentified mismatch in a photon production sum  
*check...ace consistency check (207): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 5.874593E-03 gpd= 2.847110E-01 sum= 6.341422E-01
```
200. An unidentified mismatch in a photon production sum
check...ace consistency check (208): Gamma sum
- ```

check photon production sum
 consis: mismatch at 5.875796E-03 gpd= 3.075462E-01 sum= 6.851908E-01
```
201. An unidentified mismatch in a photon production sum  
*check...ace consistency check (209): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 5.876398E-03 gpd= 3.199938E-01 sum= 7.130208E-01
```
202. An unidentified mismatch in a photon production sum
check...ace consistency check (210): Gamma sum
- ```

check photon production sum
 consis: mismatch at 5.876999E-03 gpd= 3.331705E-01 sum= 7.424830E-01
```

203. An unidentified mismatch in a photon production sum  
*check...ace consistency check (211): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.877601E-03 gpd= 3.471791E-01 sum= 7.738078E-01
```

204. An unidentified mismatch in a photon production sum  
*check...ace consistency check (212): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.878202E-03 gpd= 3.620379E-01 sum= 8.070360E-01
```

205. An unidentified mismatch in a photon production sum  
*check...ace consistency check (213): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.878804E-03 gpd= 3.778673E-01 sum= 8.424375E-01
```

206. An unidentified mismatch in a photon production sum  
*check...ace consistency check (214): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.879405E-03 gpd= 3.946923E-01 sum= 8.800685E-01
```

207. An unidentified mismatch in a photon production sum  
*check...ace consistency check (215): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.880390E-03 gpd= 4.247023E-01 sum= 9.471958E-01
```

208. An unidentified mismatch in a photon production sum  
*check...ace consistency check (216): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.881374E-03 gpd= 4.580757E-01 sum= 1.021856E+00
```

209. An unidentified mismatch in a photon production sum  
*check...ace consistency check (217): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.881867E-03 gpd= 4.762238E-01 sum= 1.062459E+00
```

210. An unidentified mismatch in a photon production sum  
*check...ace consistency check (218): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.882359E-03 gpd= 4.953760E-01 sum= 1.105312E+00
```

211. An unidentified mismatch in a photon production sum  
*check...ace consistency check (219): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.882851E-03 gpd= 5.156430E-01 sum= 1.150662E+00
```

212. An unidentified mismatch in a photon production sum  
*check...ace consistency check (220): Gamma sum*

- ```

check photon production sum
  consis: mismatch at 5.883343E-03 gpd= 5.371058E-01 sum= 1.198691E+00
```
213. An unidentified mismatch in a photon production sum
check...ace consistency check (221): Gamma sum
- ```

check photon production sum
 consis: mismatch at 5.883836E-03 gpd= 5.598995E-01 sum= 1.249701E+00
```
214. An unidentified mismatch in a photon production sum  
*check...ace consistency check (222): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 5.884328E-03 gpd= 5.840259E-01 sum= 1.303698E+00
```
215. An unidentified mismatch in a photon production sum
check...ace consistency check (223): Gamma sum
- ```

check photon production sum
 consis: mismatch at 5.884820E-03 gpd= 6.096318E-01 sum= 1.361010E+00
```
216. An unidentified mismatch in a photon production sum  
*check...ace consistency check (224): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 5.885312E-03 gpd= 6.368264E-01 sum= 1.421881E+00
```
217. An unidentified mismatch in a photon production sum
check...ace consistency check (225): Gamma sum
- ```

check photon production sum
 consis: mismatch at 5.885804E-03 gpd= 6.657269E-01 sum= 1.486576E+00
```
218. An unidentified mismatch in a photon production sum  
*check...ace consistency check (226): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 5.886296E-03 gpd= 6.964586E-01 sum= 1.555375E+00
```
219. An unidentified mismatch in a photon production sum
check...ace consistency check (227): Gamma sum
- ```

check photon production sum
 consis: mismatch at 5.886788E-03 gpd= 7.291554E-01 sum= 1.628578E+00
```
220. An unidentified mismatch in a photon production sum  
*check...ace consistency check (228): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 5.887280E-03 gpd= 7.639591E-01 sum= 1.706504E+00
```
221. An unidentified mismatch in a photon production sum
check...ace consistency check (229): Gamma sum
- ```

check photon production sum
 consis: mismatch at 5.887782E-03 gpd= 8.096298E-01 sum= 1.808770E+00
```

222. An unidentified mismatch in a photon production sum  
*check...ace consistency check (230): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.888484E-03 gpd= 8.589694E-01 sum= 1.919262E+00
```

223. An unidentified mismatch in a photon production sum  
*check...ace consistency check (231): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.889086E-03 gpd= 9.122808E-01 sum= 2.038659E+00
```

224. An unidentified mismatch in a photon production sum  
*check...ace consistency check (232): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.889687E-03 gpd= 9.697793E-01 sum= 2.167448E+00
```

225. An unidentified mismatch in a photon production sum  
*check...ace consistency check (233): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.890289E-03 gpd= 1.031973E+00 sum= 2.306767E+00
```

226. An unidentified mismatch in a photon production sum  
*check...ace consistency check (234): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.890890E-03 gpd= 1.098968E+00 sum= 2.456858E+00
```

227. An unidentified mismatch in a photon production sum  
*check...ace consistency check (235): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.891492E-03 gpd= 1.171284E+00 sum= 2.618887E+00
```

228. An unidentified mismatch in a photon production sum  
*check...ace consistency check (236): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.892093E-03 gpd= 1.248948E+00 sum= 2.792921E+00
```

229. An unidentified mismatch in a photon production sum  
*check...ace consistency check (237): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.892721E-03 gpd= 1.336174E+00 sum= 2.988407E+00
```

230. An unidentified mismatch in a photon production sum  
*check...ace consistency check (238): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.893348E-03 gpd= 1.429619E+00 sum= 3.197857E+00
```

231. An unidentified mismatch in a photon production sum  
*check...ace consistency check (239): Gamma sum*

- ```

check photon production sum
  consis: mismatch at 5.893976E-03 gpd= 1.529632E+00 sum= 3.422063E+00
```
232. An unidentified mismatch in a photon production sum
check...ace consistency check (240): Gamma sum
- ```

check photon production sum
 consis: mismatch at 5.894603E-03 gpd= 1.635798E+00 sum= 3.660101E+00
```
233. An unidentified mismatch in a photon production sum  
*check...ace consistency check (241): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 5.895231E-03 gpd= 1.748173E+00 sum= 3.912100E+00
```
234. An unidentified mismatch in a photon production sum
check...ace consistency check (242): Gamma sum
- ```

check photon production sum
 consis: mismatch at 5.895858E-03 gpd= 1.865887E+00 sum= 4.176123E+00
```
235. An unidentified mismatch in a photon production sum  
*check...ace consistency check (243): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 5.897112E-03 gpd= 2.114483E+00 sum= 4.733873E+00
```
236. An unidentified mismatch in a photon production sum
check...ace consistency check (244): Gamma sum
- ```

check photon production sum
 consis: mismatch at 5.898869E-03 gpd= 2.474657E+00 sum= 5.542452E+00
```
237. An unidentified mismatch in a photon production sum  
*check...ace consistency check (245): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 5.899748E-03 gpd= 2.648447E+00 sum= 5.932882E+00
```
238. An unidentified mismatch in a photon production sum
check...ace consistency check (246): Gamma sum
- ```

check photon production sum
 consis: mismatch at 5.900626E-03 gpd= 2.809085E+00 sum= 6.293997E+00
```
239. An unidentified mismatch in a photon production sum  
*check...ace consistency check (247): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 5.901066E-03 gpd= 2.882489E+00 sum= 6.459115E+00
```
240. An unidentified mismatch in a photon production sum
check...ace consistency check (248): Gamma sum
- ```

check photon production sum
 consis: mismatch at 5.901505E-03 gpd= 2.949818E+00 sum= 6.610651E+00
```

241. An unidentified mismatch in a photon production sum  
*check...ace consistency check (249): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.901944E-03 gpd= 3.010395E+00 sum= 6.747084E+00
```

242. An unidentified mismatch in a photon production sum  
*check...ace consistency check (250): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.902383E-03 gpd= 3.063423E+00 sum= 6.866625E+00
```

243. An unidentified mismatch in a photon production sum  
*check...ace consistency check (251): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.902823E-03 gpd= 3.108274E+00 sum= 6.967860E+00
```

244. An unidentified mismatch in a photon production sum  
*check...ace consistency check (252): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.903262E-03 gpd= 3.144118E+00 sum= 7.048920E+00
```

245. An unidentified mismatch in a photon production sum  
*check...ace consistency check (253): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.903701E-03 gpd= 3.170554E+00 sum= 7.108903E+00
```

246. An unidentified mismatch in a photon production sum  
*check...ace consistency check (254): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.904140E-03 gpd= 3.187197E+00 sum= 7.146937E+00
```

247. An unidentified mismatch in a photon production sum  
*check...ace consistency check (255): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.904680E-03 gpd= 3.193888E+00 sum= 7.162828E+00
```

248. An unidentified mismatch in a photon production sum  
*check...ace consistency check (256): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.905120E-03 gpd= 3.188002E+00 sum= 7.150348E+00
```

249. An unidentified mismatch in a photon production sum  
*check...ace consistency check (257): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.905559E-03 gpd= 3.172067E+00 sum= 7.115324E+00
```

250. An unidentified mismatch in a photon production sum  
*check...ace consistency check (258): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.905999E-03 gpd= 3.146245E+00 sum= 7.058113E+00
```

251. An unidentified mismatch in a photon production sum  
*check...ace consistency check (259): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.906438E-03 gpd= 3.111026E+00 sum= 6.979808E+00
```

252. An unidentified mismatch in a photon production sum  
*check...ace consistency check (260): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.906878E-03 gpd= 3.066758E+00 sum= 6.881183E+00
```

253. An unidentified mismatch in a photon production sum  
*check...ace consistency check (261): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.907317E-03 gpd= 3.014259E+00 sum= 6.764067E+00
```

254. An unidentified mismatch in a photon production sum  
*check...ace consistency check (262): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.907756E-03 gpd= 2.954153E+00 sum= 6.629855E+00
```

255. An unidentified mismatch in a photon production sum  
*check...ace consistency check (263): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.908195E-03 gpd= 2.887230E+00 sum= 6.480315E+00
```

256. An unidentified mismatch in a photon production sum  
*check...ace consistency check (264): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.909074E-03 gpd= 2.736174E+00 sum= 6.142512E+00
```

257. An unidentified mismatch in a photon production sum  
*check...ace consistency check (265): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.909952E-03 gpd= 2.568512E+00 sum= 5.767285E+00
```

258. An unidentified mismatch in a photon production sum  
*check...ace consistency check (266): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.911709E-03 gpd= 2.210049E+00 sum= 4.964402E+00
```

259. An unidentified mismatch in a photon production sum  
*check...ace consistency check (267): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.913112E-03 gpd= 1.927141E+00 sum= 4.330304E+00
```

260. An unidentified mismatch in a photon production sum  
*check...ace consistency check (268): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.913814E-03 gpd= 1.792662E+00 sum= 4.028778E+00
```

261. An unidentified mismatch in a photon production sum  
*check...ace consistency check (269): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.914515E-03 gpd= 1.664928E+00 sum= 3.742314E+00
```

262. An unidentified mismatch in a photon production sum  
*check...ace consistency check (270): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.915217E-03 gpd= 1.544409E+00 sum= 3.471980E+00
```

263. An unidentified mismatch in a photon production sum  
*check...ace consistency check (271): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.915918E-03 gpd= 1.431914E+00 sum= 3.219600E+00
```

264. An unidentified mismatch in a photon production sum  
*check...ace consistency check (272): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.916620E-03 gpd= 1.327286E+00 sum= 2.984829E+00
```

265. An unidentified mismatch in a photon production sum  
*check...ace consistency check (273): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.917321E-03 gpd= 1.230748E+00 sum= 2.768177E+00
```

266. An unidentified mismatch in a photon production sum  
*check...ace consistency check (274): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.918007E-03 gpd= 1.143718E+00 sum= 2.572836E+00
```

267. An unidentified mismatch in a photon production sum  
*check...ace consistency check (275): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.918693E-03 gpd= 1.063702E+00 sum= 2.393215E+00
```

268. An unidentified mismatch in a photon production sum  
*check...ace consistency check (276): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.919379E-03 gpd= 9.902831E-01 sum= 2.228383E+00
```

269. An unidentified mismatch in a photon production sum  
*check...ace consistency check (277): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.920065E-03 gpd= 9.230058E-01 sum= 2.077320E+00
```

270. An unidentified mismatch in a photon production sum  
*check...ace consistency check (278): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.920751E-03 gpd= 8.614014E-01 sum= 1.938979E+00
```

271. An unidentified mismatch in a photon production sum  
*check...ace consistency check (279): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.921437E-03 gpd= 8.050033E-01 sum= 1.812315E+00
```

272. An unidentified mismatch in a photon production sum  
*check...ace consistency check (280): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.922123E-03 gpd= 7.533620E-01 sum= 1.696322E+00
```

273. An unidentified mismatch in a photon production sum  
*check...ace consistency check (281): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.922809E-03 gpd= 7.060518E-01 sum= 1.590046E+00
```

274. An unidentified mismatch in a photon production sum  
*check...ace consistency check (282): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.923495E-03 gpd= 6.626759E-01 sum= 1.492598E+00
```

275. An unidentified mismatch in a photon production sum  
*check...ace consistency check (283): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.924181E-03 gpd= 6.228677E-01 sum= 1.403157E+00
```

276. An unidentified mismatch in a photon production sum  
*check...ace consistency check (284): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.924867E-03 gpd= 5.862923E-01 sum= 1.320971E+00
```

277. An unidentified mismatch in a photon production sum  
*check...ace consistency check (285): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.925553E-03 gpd= 5.526447E-01 sum= 1.245356E+00
```

278. An unidentified mismatch in a photon production sum  
*check...ace consistency check (286): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.926239E-03 gpd= 5.216489E-01 sum= 1.175695E+00
```

279. An unidentified mismatch in a photon production sum  
*check...ace consistency check (287): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.926925E-03 gpd= 4.930556E-01 sum= 1.111427E+00
```

280. An unidentified mismatch in a photon production sum  
*check...ace consistency check (288): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.927611E-03 gpd= 4.666402E-01 sum= 1.052048E+00
```

281. An unidentified mismatch in a photon production sum  
*check...ace consistency check (289): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.928297E-03 gpd= 4.422009E-01 sum= 9.971074E-01
```

282. An unidentified mismatch in a photon production sum  
*check...ace consistency check (290): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.928983E-03 gpd= 4.195562E-01 sum= 9.461960E-01
```

283. An unidentified mismatch in a photon production sum  
*check...ace consistency check (291): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.929669E-03 gpd= 3.985430E-01 sum= 8.989486E-01
```

284. An unidentified mismatch in a photon production sum  
*check...ace consistency check (292): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.930355E-03 gpd= 3.790152E-01 sum= 8.550371E-01
```

285. An unidentified mismatch in a photon production sum  
*check...ace consistency check (293): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.931041E-03 gpd= 3.608416E-01 sum= 8.141673E-01
```

286. An unidentified mismatch in a photon production sum  
*check...ace consistency check (294): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.931727E-03 gpd= 3.439043E-01 sum= 7.760746E-01
```

287. An unidentified mismatch in a photon production sum  
*check...ace consistency check (295): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.932413E-03 gpd= 3.280977E-01 sum= 7.405217E-01
```

288. An unidentified mismatch in a photon production sum  
*check...ace consistency check (296): Gamma sum*

- ```

check photon production sum
  consis: mismatch at 5.933099E-03 gpd= 3.133267E-01 sum= 7.072954E-01
```
289. An unidentified mismatch in a photon production sum
check...ace consistency check (297): Gamma sum
- ```

check photon production sum
 consis: mismatch at 5.933785E-03 gpd= 2.995056E-01 sum= 6.762031E-01
```
290. An unidentified mismatch in a photon production sum  
*check...ace consistency check (298): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 5.934471E-03 gpd= 2.865572E-01 sum= 6.470714E-01
```
291. An unidentified mismatch in a photon production sum
check...ace consistency check (299): Gamma sum
- ```

check photon production sum
 consis: mismatch at 5.935157E-03 gpd= 2.744117E-01 sum= 6.197442E-01
```
292. An unidentified mismatch in a photon production sum  
*check...ace consistency check (300): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 5.935843E-03 gpd= 2.630062E-01 sum= 5.940795E-01
```
293. An unidentified mismatch in a photon production sum
check...ace consistency check (301): Gamma sum
- ```

check photon production sum
 consis: mismatch at 5.936529E-03 gpd= 2.522831E-01 sum= 5.699485E-01
```
294. An unidentified mismatch in a photon production sum  
*check...ace consistency check (302): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 5.937215E-03 gpd= 2.421906E-01 sum= 5.472345E-01
```
295. An unidentified mismatch in a photon production sum
check...ace consistency check (303): Gamma sum
- ```

check photon production sum
 consis: mismatch at 5.937901E-03 gpd= 2.326812E-01 sum= 5.258313E-01
```
296. An unidentified mismatch in a photon production sum  
*check...ace consistency check (304): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 5.939272E-03 gpd= 2.152554E-01 sum= 4.866053E-01
```
297. An unidentified mismatch in a photon production sum
check...ace consistency check (305): Gamma sum
- ```

check photon production sum
 consis: mismatch at 5.940644E-03 gpd= 1.996789E-01 sum= 4.515363E-01
```

298. An unidentified mismatch in a photon production sum  
*check...ace consistency check (306): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.942016E-03 gpd= 1.857130E-01 sum= 4.200884E-01
```

299. An unidentified mismatch in a photon production sum  
*check...ace consistency check (307): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.943388E-03 gpd= 1.731463E-01 sum= 3.917865E-01
```

300. An unidentified mismatch in a photon production sum  
*check...ace consistency check (308): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.944760E-03 gpd= 1.618000E-01 sum= 3.662291E-01
```

301. An unidentified mismatch in a photon production sum  
*check...ace consistency check (309): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.946132E-03 gpd= 1.515232E-01 sum= 3.430767E-01
```

302. An unidentified mismatch in a photon production sum  
*check...ace consistency check (310): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.947504E-03 gpd= 1.421867E-01 sum= 3.220395E-01
```

303. An unidentified mismatch in a photon production sum  
*check...ace consistency check (311): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.948876E-03 gpd= 1.336805E-01 sum= 3.028701E-01
```

304. An unidentified mismatch in a photon production sum  
*check...ace consistency check (312): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.950247E-03 gpd= 1.259155E-01 sum= 2.853682E-01
```

305. An unidentified mismatch in a photon production sum  
*check...ace consistency check (313): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.952118E-03 gpd= 1.163592E-01 sum= 2.638248E-01
```

306. An unidentified mismatch in a photon production sum  
*check...ace consistency check (314): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.953989E-03 gpd= 1.078472E-01 sum= 2.446315E-01
```

307. An unidentified mismatch in a photon production sum  
*check...ace consistency check (315): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.955860E-03 gpd= 1.002349E-01 sum= 2.274631E-01
```

308. An unidentified mismatch in a photon production sum  
*check...ace consistency check (316): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.957730E-03 gpd= 9.340309E-02 sum= 2.120518E-01
```

309. An unidentified mismatch in a photon production sum  
*check...ace consistency check (317): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.959601E-03 gpd= 8.724056E-02 sum= 1.981472E-01
```

310. An unidentified mismatch in a photon production sum  
*check...ace consistency check (318): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.961472E-03 gpd= 8.166379E-02 sum= 1.855615E-01
```

311. An unidentified mismatch in a photon production sum  
*check...ace consistency check (319): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.963343E-03 gpd= 7.660072E-02 sum= 1.741327E-01
```

312. An unidentified mismatch in a photon production sum  
*check...ace consistency check (320): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.965213E-03 gpd= 7.199358E-02 sum= 1.637308E-01
```

313. An unidentified mismatch in a photon production sum  
*check...ace consistency check (321): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.967957E-03 gpd= 6.594757E-02 sum= 1.500765E-01
```

314. An unidentified mismatch in a photon production sum  
*check...ace consistency check (322): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.970701E-03 gpd= 6.063079E-02 sum= 1.380654E-01
```

315. An unidentified mismatch in a photon production sum  
*check...ace consistency check (323): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.973445E-03 gpd= 5.593116E-02 sum= 1.274452E-01
```

316. An unidentified mismatch in a photon production sum  
*check...ace consistency check (324): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.976188E-03 gpd= 5.175852E-02 sum= 1.180129E-01
```

317. An unidentified mismatch in a photon production sum  
*check...ace consistency check (325): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.978932E-03 gpd= 4.803457E-02 sum= 1.095922E-01
```

318. An unidentified mismatch in a photon production sum  
*check...ace consistency check (326): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.981676E-03 gpd= 4.469860E-02 sum= 1.020466E-01
```

319. An unidentified mismatch in a photon production sum  
*check...ace consistency check (327): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.984420E-03 gpd= 4.169869E-02 sum= 9.525891E-02
```

320. An unidentified mismatch in a photon production sum  
*check...ace consistency check (328): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.987163E-03 gpd= 3.899224E-02 sum= 8.913334E-02
```

321. An unidentified mismatch in a photon production sum  
*check...ace consistency check (329): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.989907E-03 gpd= 3.654055E-02 sum= 8.358267E-02
```

322. An unidentified mismatch in a photon production sum  
*check...ace consistency check (330): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.992651E-03 gpd= 3.431352E-02 sum= 7.853906E-02
```

323. An unidentified mismatch in a photon production sum  
*check...ace consistency check (331): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.995395E-03 gpd= 3.228457E-02 sum= 7.394265E-02
```

324. An unidentified mismatch in a photon production sum  
*check...ace consistency check (332): Gamma sum*

```
check photon production sum
 consis: mismatch at 5.998138E-03 gpd= 3.043160E-02 sum= 6.974362E-02
```

325. An unidentified mismatch in a photon production sum  
*check...ace consistency check (333): Gamma sum*

```
check photon production sum
 consis: mismatch at 6.000882E-03 gpd= 2.873368E-02 sum= 6.589475E-02
```

326. An unidentified mismatch in a photon production sum  
*check...ace consistency check (334): Gamma sum*

```

check photon production sum
 consis: mismatch at 6.003625E-03 gpd= 2.717513E-02 sum= 6.236075E-02

327. An unidentified mismatch in a photon production sum
check...ace consistency check (335): Gamma sum

check photon production sum
 consis: mismatch at 6.009112E-03 gpd= 2.441798E-02 sum= 5.610611E-02

328. An unidentified mismatch in a photon production sum
check...ace consistency check (336): Gamma sum

check photon production sum
 consis: mismatch at 6.014101E-03 gpd= 2.226584E-02 sum= 5.122124E-02

329. An unidentified mismatch in a photon production sum
check...ace consistency check (337): Gamma sum

check photon production sum
 consis: mismatch at 6.019090E-03 gpd= 2.038668E-02 sum= 4.695360E-02

330. An unidentified mismatch in a photon production sum
check...ace consistency check (338): Gamma sum

check photon production sum
 consis: mismatch at 6.024079E-03 gpd= 1.873461E-02 sum= 4.319952E-02

331. An unidentified mismatch in a photon production sum
check...ace consistency check (339): Gamma sum

check photon production sum
 consis: mismatch at 6.029067E-03 gpd= 1.727715E-02 sum= 3.988587E-02

332. An unidentified mismatch in a photon production sum
check...ace consistency check (340): Gamma sum

check photon production sum
 consis: mismatch at 6.034056E-03 gpd= 1.598474E-02 sum= 3.694587E-02

333. An unidentified mismatch in a photon production sum
check...ace consistency check (341): Gamma sum

check photon production sum
 consis: mismatch at 6.039044E-03 gpd= 1.483386E-02 sum= 3.432640E-02

334. An unidentified mismatch in a photon production sum
check...ace consistency check (342): Gamma sum

check photon production sum
 consis: mismatch at 6.044033E-03 gpd= 1.380419E-02 sum= 3.198156E-02

335. An unidentified mismatch in a photon production sum
check...ace consistency check (343): Gamma sum

check photon production sum
 consis: mismatch at 6.049021E-03 gpd= 1.287969E-02 sum= 2.987512E-02

```

336. An unidentified mismatch in a photon production sum  
*check...ace consistency check (344): Gamma sum*

```
check photon production sum
 consis: mismatch at 6.059996E-03 gpd= 1.115035E-02 sum= 2.593157E-02
```

337. An unidentified mismatch in a photon production sum  
*check...ace consistency check (345): Gamma sum*

```
check photon production sum
 consis: mismatch at 6.070971E-03 gpd= 9.752423E-03 sum= 2.274010E-02
```

338. An unidentified mismatch in a photon production sum  
*check...ace consistency check (346): Gamma sum*

```
check photon production sum
 consis: mismatch at 6.081946E-03 gpd= 8.606443E-03 sum= 2.012086E-02
```

339. An unidentified mismatch in a photon production sum  
*check...ace consistency check (347): Gamma sum*

```
check photon production sum
 consis: mismatch at 6.092921E-03 gpd= 7.655393E-03 sum= 1.794472E-02
```

340. An unidentified mismatch in a photon production sum  
*check...ace consistency check (348): Gamma sum*

```
check photon production sum
 consis: mismatch at 6.101402E-03 gpd= 7.027124E-03 sum= 1.650573E-02
```

341. An unidentified mismatch in a photon production sum  
*check...ace consistency check (349): Gamma sum*

```
check photon production sum
 consis: mismatch at 6.109883E-03 gpd= 6.475781E-03 sum= 1.524192E-02
```

342. An unidentified mismatch in a photon production sum  
*check...ace consistency check (350): Gamma sum*

```
check photon production sum
 consis: mismatch at 6.126844E-03 gpd= 5.558272E-03 sum= 1.313632E-02
```

343. An unidentified mismatch in a photon production sum  
*check...ace consistency check (351): Gamma sum*

```
check photon production sum
 consis: mismatch at 6.143805E-03 gpd= 4.827178E-03 sum= 1.145571E-02
```

344. An unidentified mismatch in a photon production sum  
*check...ace consistency check (352): Gamma sum*

```
check photon production sum
 consis: mismatch at 6.160766E-03 gpd= 4.236960E-03 sum= 1.009686E-02
```

345. An unidentified mismatch in a photon production sum  
*check...ace consistency check (353): Gamma sum*

```

check photon production sum
 consis: mismatch at 6.182716E-03 gpd= 3.628104E-03 sum= 8.692764E-03

346. An unidentified mismatch in a photon production sum
check...ace consistency check (354): Gamma sum

check photon production sum
 consis: mismatch at 6.204666E-03 gpd= 3.148310E-03 sum= 7.584312E-03

347. An unidentified mismatch in a photon production sum
check...ace consistency check (355): Gamma sum

check photon production sum
 consis: mismatch at 6.226616E-03 gpd= 2.763496E-03 sum= 6.693796E-03

348. An unidentified mismatch in a photon production sum
check...ace consistency check (356): Gamma sum

check photon production sum
 consis: mismatch at 6.248566E-03 gpd= 2.450156E-03 sum= 5.967561E-03

349. An unidentified mismatch in a photon production sum
check...ace consistency check (357): Gamma sum

check photon production sum
 consis: mismatch at 6.280493E-03 gpd= 2.088790E-03 sum= 5.128617E-03

350. An unidentified mismatch in a photon production sum
check...ace consistency check (358): Gamma sum

check photon production sum
 consis: mismatch at 6.312420E-03 gpd= 1.809548E-03 sum= 4.479294E-03

351. An unidentified mismatch in a photon production sum
check...ace consistency check (359): Gamma sum

check photon production sum
 consis: mismatch at 6.344347E-03 gpd= 1.588230E-03 sum= 3.963872E-03

352. An unidentified mismatch in a photon production sum
check...ace consistency check (360): Gamma sum

check photon production sum
 consis: mismatch at 6.376274E-03 gpd= 1.410207E-03 sum= 3.548857E-03

353. An unidentified mismatch in a photon production sum
check...ace consistency check (361): Gamma sum

check photon production sum
 consis: mismatch at 6.420174E-03 gpd= 1.217166E-03 sum= 3.098561E-03

354. An unidentified mismatch in a photon production sum
check...ace consistency check (362): Gamma sum

check photon production sum
 consis: mismatch at 6.464074E-03 gpd= 1.067327E-03 sum= 2.749018E-03

```

355. An unidentified mismatch in a photon production sum  
*check...ace consistency check (363): Gamma sum*

```
check photon production sum
 consis: mismatch at 6.507974E-03 gpd= 9.484483E-04 sum= 2.471895E-03
```

356. An unidentified mismatch in a photon production sum  
*check...ace consistency check (364): Gamma sum*

```
check photon production sum
 consis: mismatch at 6.551873E-03 gpd= 8.525076E-04 sum= 2.248637E-03
```

357. An unidentified mismatch in a photon production sum  
*check...ace consistency check (365): Gamma sum*

```
check photon production sum
 consis: mismatch at 6.631691E-03 gpd= 7.199567E-04 sum= 1.941654E-03
```

358. An unidentified mismatch in a photon production sum  
*check...ace consistency check (366): Gamma sum*

```
check photon production sum
 consis: mismatch at 6.711509E-03 gpd= 6.225486E-04 sum= 1.717618E-03
```

359. An unidentified mismatch in a photon production sum  
*check...ace consistency check (367): Gamma sum*

```
check photon production sum
 consis: mismatch at 6.791327E-03 gpd= 5.493390E-04 sum= 1.551447E-03
```

360. An unidentified mismatch in a photon production sum  
*check...ace consistency check (368): Gamma sum*

```
check photon production sum
 consis: mismatch at 6.871144E-03 gpd= 4.918886E-04 sum= 1.422900E-03
```

361. An unidentified mismatch in a photon production sum  
*check...ace consistency check (369): Gamma sum*

```
check photon production sum
 consis: mismatch at 7.014816E-03 gpd= 4.154977E-04 sum= 1.257006E-03
```

362. An unidentified mismatch in a photon production sum  
*check...ace consistency check (370): Gamma sum*

```
check photon production sum
 consis: mismatch at 7.158488E-03 gpd= 3.601873E-04 sum= 1.142255E-03
```

363. An unidentified mismatch in a photon production sum  
*check...ace consistency check (371): Gamma sum*

```
check photon production sum
 consis: mismatch at 7.302160E-03 gpd= 3.178096E-04 sum= 1.059199E-03
```

364. An unidentified mismatch in a photon production sum  
*check...ace consistency check (372): Gamma sum*

```
check photon production sum
 consis: mismatch at 7.445832E-03 gpd= 2.838298E-04 sum= 9.969549E-04
```

365. An unidentified mismatch in a photon production sum  
*check...ace consistency check (373): Gamma sum*

```
check photon production sum
 consis: mismatch at 7.637395E-03 gpd= 2.473120E-04 sum= 9.363498E-04
```

366. An unidentified mismatch in a photon production sum  
*check...ace consistency check (374): Gamma sum*

```
check photon production sum
 consis: mismatch at 7.828958E-03 gpd= 2.166828E-04 sum= 8.901302E-04
```

367. An unidentified mismatch in a photon production sum  
*check...ace consistency check (375): Gamma sum*

```
check photon production sum
 consis: mismatch at 8.212083E-03 gpd= 1.669566E-04 sum= 8.278824E-04
```

368. An unidentified mismatch in a photon production sum  
*check...ace consistency check (376): Gamma sum*

```
check photon production sum
 consis: mismatch at 8.595208E-03 gpd= 1.256447E-04 sum= 7.882140E-04
```

369. An unidentified mismatch in a photon production sum  
*check...ace consistency check (377): Gamma sum*

```
check photon production sum
 consis: mismatch at 8.978333E-03 gpd= 8.859403E-05 sum= 7.596103E-04
```

370. An unidentified mismatch in a photon production sum  
*check...ace consistency check (378): Gamma sum*

```
check photon production sum
 consis: mismatch at 9.489167E-03 gpd= 4.313326E-05 sum= 7.336963E-04
```

371. An unidentified mismatch in a photon production sum  
*check...ace consistency check (379): Gamma sum*

```
check photon production sum
 consis: mismatch at 1.000000E-02 gpd= 9.459660E-18 sum= 0.000000E+00
```